Kacheliba District Hospital and Konyao Health Center

Quality illiprovelilent

Suggestions by Åsa Lundgren, Anna Danielsson, Jenny Koertge Rotary Doctors November-December 2022

1. Hygien

Goal: Reduce hospital aquired infections

- Hand sanitation
- Soap at the ward done, but needs continous refilling
- Hand-washing possibility near toilets – done, but need continous refilling

- Clean floors twice a day
- Clean latrines four times a day
- Desinfect beds between patients

Source: National Infection Prevention and Control Guidelines for Health Care Services in Kenya, 2010)

2. Antimicrobial resistance

Goal: Slow down the rising antimicrobial resistance so that common and cheap antibiotics still can be used.

- CME ("common cold"): Awareness among staff
- Prevent spread: Respiratory hygiene
- Make patients aware of common cold, that antibiotics is not needed and what to do
- Restricted use of broad spectrum antibiotics eg ceftriaxone
 (Teaching among waiting patients? Video?)

(According to WHO about 5 milion people is estimated to die every year due to infections with multiresistant bacteria.)

3. Efficacy

Goal: To improve the quality and the efficacy in the meeting with the patient in OPD and wards

- Staff to check vital signs before the patients see CO.
 - Adults: Temp, BP, pulse, RR
 - Children: + weight, length, SD, MUAC, vaccination status, deworming
 - Triage according to vital signs

- Morning meetings (reporting and information)
- Respect working hours (be on time and leave on time)
- Pharmacist update CO what medicines are available
- Nurses to put iv-lines



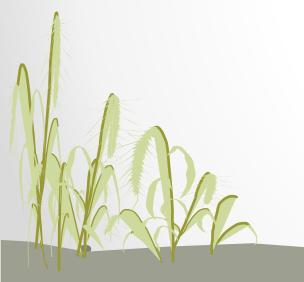
4. Improve preparedness for emergencies

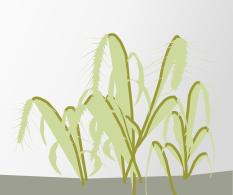
Goal: To improve the quality of care in stabilizing a critically ill patient and thereby improve the prognosis of the patient.

- Use of standardized method of investigation (A-E).
- Guarantee the supply necessary supplies for resuscitation in the OPD
- Supply an immobilizer for spinecontrol during transport
- CPR training adult and child for all staff at least 1/year.
- Learning from mistakes and casualties

5. Examination of the patient

- Examination of the patient is essential to get the right diagnosis and treatment
- All needed essential equipment for examination of the patient should be in place in the OPD and warden: stethoscope, BP machine, torch, tongue depressor, otoscope, reflex hammer.



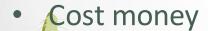


Antimicrobial resistance:

Reduce the use of antibiotics, especially in common cold.

Why?

- Slow down the rising antibiotic resistance.
- Antibiotics disturb the normal bacterial flora of the gut and it takes some months to restore it = risk of diarrhea/clostridium GE.
- Side effects common (nausea, rash, vomiting, dizziness, yeast infections etc)
- Allergic reactions (mostly cotrimoxazole and penicillins)
- Have no effect on viral infections



Common side effects of antibiotics include:











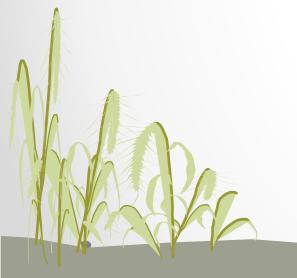


Antimicrobial resistance:

Reduce the use of antibiotics, especially in common cold.

How?

- CME
- ReAct (reactgroup.org): For staff to learn more
- Fact sheet about pneumonia versus common cold for staff





Common cold versus pneumonia

Common cold/URTI	Pneumonia	
Virus. Antibiotics useless.	Bacteria. Antibiotic is needed.	
Normal children have 6-7 common	Symtoms:	
colds a year and an adult 2-3.	Cough	
	Increased respiratory rate	
Symptoms:	Respiratory distress	
Cough	High fever	
Running nose	More sick-looking	
Fever	Chest wall indrawings and nasal flaring on small children	
Soar throat	Crepitations often heard when examining the lungs	
Not so sick		
3-5 days but can last longer	Treatment: Antibiotics and symptomatic treatment	
Treatment:	The normal respiratory rate for children varie	s by age.
Symptomatic (paracetamol, nasal	***	
drops, cough syrup)	Age	Pate (in breath

Age	Rate (in breaths per minute)
Infant (birth to 1 year)	30 to 60
Toddler (1 to 3 years)	24 to 40
Preschooler (3 to 6 years)	22 to 34
School age (6 to 12 years)	18 to 30
Adolescent (12 to 18 years)	12 to 16



IMPROVING ANTIBIOTIC USE



Do I really need antibiotics?



SAY YES TO ANTIBIOTICS

when needed for certain infections caused by **bacteria**.



SAY NO TO ANTIBIOTICS

for **Viruses**, such as colds and flu, or runny noses, even if the mucus is thick, yellow or green. Antibiotics also won't help for some common bacterial infections including most cases of bronchitis, many sinus infections, and some ear infections.



Antibiotics are only needed for treating certain infections caused by bacteria.

Antibiotics do NOT work on viruses.





Figure 17: Poster on respiratory hygiene

Cover Your Cough

Protect Your Family. Protect Yourself.



Cough or sneeze into your arm...



...or use a tissue and then throw away...



...then wash your hands



Keep at least one metre between yourself and others. Observe hospital visiting hours, limit the number of visitors, and do not visit if you are sick.





Stop the spread of coughs, colds, and influenza.







Staff to check vital signs

Why?

- To find the most sick patients (high resp rate, low blood pressure)
- Discover children with low weight/malnutrition
- Discover people with hypertension
- Increase the quality of OPD
- Make the OPD more efficient
- Reduce the work burden for CO which gives them more time to talk/explain to the patient

Staff to check vital signs

How?

- Nurse/other staff member takes vital signs before CO sees patient.
- Patients with bad vital signs go stright to CO.
- Children < 2 years + HoB/fever BS for MPS before seeing CO
- Triage according to vital signs
- 1) can wait
- 2) need to see CO soon
- 3) need to se CO immediately



Vital signs – adults

Temperature
Blood pressure
Pulse

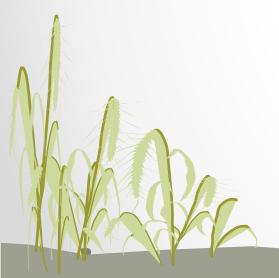
If cough and/or Hotness of body and/or Temperature >38?

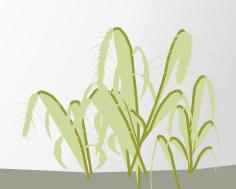
Respiratory rate

Normal blood pressure: 90/60 - 140/90

Normal pulse: 60 – 80/min

Normal respiratory rate: 12 - 20/min





Vital signs - children

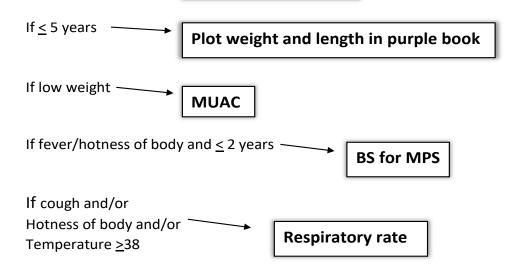
Temperature

Weight

Length

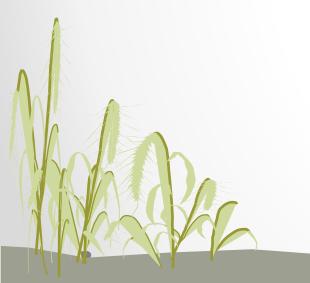
Vaccination status

Dewormed?



Normal:

	Pulse	Respiratory rate
<1 month	100 – 165	30 - 60
1 month – 1 year	100 – 150	30 – 55
1 – 2 years	70 – 110	20 – 30
3 – 5 years	65 – 110	20 – 25
6 – 11 years	60 – 95	14 – 22
12 – 15 years	55 - 85	12 - 18





Improve preparedness for emergencies

How?

- Use of standardized method of investigation (A-E). CME
- Guarantee the supply necessary supplies for resuscitation in the OPD (airway aids, oxygen, pulseoxymeters, BT machine, iv lines, tourniquet, defibrillator, emergency medications: adrenaline, atropin, diazepam/phenobarbital, morfine, glucose, fluids, antibiotics and paracetamol)
- Immobilizer for spinecontrol during transport
- CPR training adult and child for all staff at least 1/year. CME
- Learning from mistakes and casualties by organizing monthly "Morbidity and Mortality" staff meetings
 - Increase adherence to medical guidelines eg fluidtherapy for dehydration and burns. CME.