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		g: (140)	شلل الاطفالِ الفموي ج١	
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			المكورات الرئوية المقترن ج١.	
			الفايروس الدوار ج.١	
			شُلل الاطفال الفموي ج٢	
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			شلل الاطفال القموي ج٣	
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	2 200	· · · ·	الحصبة المنفردة	
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			شِلل الاطفال الفموي (منشطة ١)	
40			اللقاح الثلاثي (منشطة ١)	
r. 1 1	7. 1 1	۱۸ شهر	الحصبة المختلطة ج٢	
			فیتامین ۵(۲۰۰۰۰) وحدة دولیة	1
			شلل الاطفال الفموي (منشطة ٢)	1
	Y: 1 1	(۲-٤) سنوات	اللقاح الثلاثي (منشطة ٢)	
			فیتامین A(۲۰۰۰۰) وحدة دولیة	

عزيزي الأب عزيزتي الأم

ا – إن التَلقيح يحمي أطفالكم من مخاطر الكثير من الأمراض خصوصا الإلتقائية

٢- التزامكم بإعطاء اللقاحات الواردة في جدول التلقيحات الوطلية يمنح المناعة الكاملة لأطفالك









Vaccination Program (immunization)

Expanded Program of Immunization -EPI: it is a global attempt to reduce morbidity and mortality of childhood vaccine preventable diseases, it is adopted by WHO ,UNICEF, and other international agencies with a coverage rate 80% and more.

It is called expanded because we can add new vaccines according to health needs.

Vaccine: it is a substance that is contain micro organisms, bacteria or viruses either live attenuated, killed, or toxin of micro organism that introduce to the body and stimulate antibody antigen reaction and produce active type of immunity.

Passive immunity result from injecting antibodies inside body.

International vaccine schedule: time table of vaccination adopted in IRAQ starting from first day of life up to 6 years of age.

— Vikkipolis (zero dose) + receptions (LSF dose)

First week --- BCG intradermal –left upper shoulder

Hepatitis B ,IM --- thigh

OPV

Oral polio , oral two drops (sabin)

Two month----- penta vaccine,IM -----thigh

Oral poilo

Pneumococcal vaccine,IM----- Thigh

Rota virus, five cc, orally

Fourth month-----thigh

Oral poilo

Pneumococcal vaccine,IM----- Thigh

Rota virus, five cc ,orally

Injectable polio, IM-----Thigh (salk)

SIX month-----thigh Oral poilo Pneumococcal vaccine, IM----- Thigh Rota virus, five cc ,orally Injectable polio, IM-----Thigh (salk) Nine minth-----arm 3 Vit. A100000 unit One year -----arm 18 month-----oral polio, oral two drops(first boaster) Triple vaccine(DPT), IM ------ thigh(first boaster) MMR, SC ,second dose,----Vit A ,200000 unit 4-6 year----- oral polio , oral two drops (second boaster) Triple vaccine(DPT), IM ----- thigh (second boaster) Vit A ,200000 unit

Note: penta vaccine: DPT, Hemophilus influenza, Hepatitis B

Triple vaccine: DPT

Types of vaccine:

Live attenuated bacteria -------BCG

Killed bacteria ------P(Pertussis), Typhoid

Live attenuated viruses-----single measles, oral polio (sabin), MMR

Killed viruses-----injectable polio (salk), influenza, Hepatitis A

-Chromosomal engineering-------Hepatitis B

Toxin -------Tetanus toxoid, diphtheria

Contra indication of vaccination:

There is no absolute contra indication, the only contra indication is when you suspect cardiogenic shock when it is recorded at first dose as in case of DPT cause shock in first dose so we give the child only DT in second dose.

Condition in which post bond the vaccine:

- 1.highe fever more than 38.5 degree cent grate.
- 2. Acute sever illness.
- 3.Admission to hospital for any cause.
- 4. history of blood transfusion two month ago.
- 5. History of steroid drugs intake for three month ago.

Side effect of vaccination:

- Local effect: as redness, swelling, tenderness, limitation of movement, and abscess formation.
- General effect: fever (need antipyretics), shock (need adrenaline 0.1 cc for each year of age sc),
 Hyper sensitivity: need hydro cortisone injection

Vaccination Room Requirement

- 1. Special room.
- 2. Vaccine.
- Cool chain: which is special system that ensure manufacturing , storage, transferring vaccine in a temperature range from 2-8 degree cent grate, as the vaccination box, cool box, refrigerator, .
- 4. Recording system.
- 5. Syringe.
- 6. Vaccination charts.
- 7. Thermometer for vaccine.
- 8. Safety box.
- 9. No need for antiseptics.
 - 10.Emergency drugs.

Escaped baby from vaccine: is the baby who started the vaccination program, then he was escaped from the vaccine dose without clear cause.

Hepatitis B vaccine for adult : SC injection in the arm

First dose ----zero dose

Second dose -----after one month (4 w K)

Third dose -----after 6 month of the first one

Target group: all health care workers, any worker with blood like butchers, barbers, also patients with renal dialysis, or thalassemia, leukemia who need blood transfusion.

TO TREAT DEHYDRATION TREATMENT PLAN B

	Less than 4 months	4 · 11	12 - 23 months	2 · 4 ·	5 - 14 708-71	15 years or older
Weight	Less than 5 kg 5-7.9 kg	\$-7.9 kg	8 - 10.9 kg	11 - 15.9 kg	11 - 15.9 kg 16 - 29.9 kg	30 kg or more
Ē	200-400	400-600	008-009	800-1200	1200-2200	2200-4000
in local						,

Cse the patient's age only when you do not know the weight. The approximate emount of ORS (equired (in mt) can also be calculated by multiplying the patient's weight (in hg) times 75.

- If the child wants more ORS than shown, give more.
 Encourage the mother to continue breast-leeding.
 For infants under 6 months who are not breast-leed, also give 100-200 ml clean water during this period.

OBSERVE THE CHILD CAREFULLY AND HELP THE MOTHER Give JRS SOLUTION:

- Show her how much solution to give her child.
- Show her how to give it a teaspoonful every 1-2 minutes for a chilid under 2 years, frequent sips from a cup for an older chilid.
 - Check from time to time to see if there are problems.
- If the child vomits, wait 10 minutes and then continue giving ORS, but more slowly for example, a spoonful every 2-3 minutus.
 - If the child's eyeilds become pully, stop JRS and give piain water or treast mis. Give ORS according to Plan A when the puffiness is gone.

AFTER 4 HOURS, REASSESS THE CHILD USING THE ASSESSMENT CHART, THEN SELECT PLAN A, B, OR C TO CONTINUE TREATMENT.

- If there are no signs of dehydration, shift to plan A. Wiven dehydraton has been corrected, the child usually passes urne and may also be lived and fall asleep.
- Il signs indicating some dehydration are still present, repeat plan B, but start to offer food, milk and juice as described in plan A.
- If signs indicating severe dehycration have appeared, shift to plan C.

IF THE MOTHER MUST LEAVE BEFORE COMPLETING TREATMENT PLAN B:

- Show her how much ORS to give to finish the 4- hour treatment at home
- Give her enough URS packets to complete rehydration, and for 2 more days as shown in plan A.
- Show her how to prepare ORS solution
- Explain to her the three rules in plan A for treating her child at home:

 to give ORS or other fluids until darmoea stops

 to be the child back to the health worker, if necessary.

ANTIBIOTICS should ONLY be used for dysenlery and for suspected cholers cases with severe dehydration. Otherwise, they are ineffective and should NOT be given. FOR CHILDREN WITH DIARRHOEA

USE OF DRUGS

- ANTIPARASITIC drugs should ONLY be used for
- Amoebiasis, after antibiolic treatment of bloody diarrhoea for Shigella has falled or trophozoites of E. histolytica containing red blood cells are seen in the faeces.
- Gardiasis, when diarrhoea has lasted at least 14 days and cysts or trophozoites of Giardia are seen in faeces or small bowel fluid.
- ANTIDIARRHOEAL DRUGS and ANTIEMETICS should NEVER be used, None has proven practical value. Some are dangerous.

TO TREAT SEVERE DEHYDRATION QUICKLY TREATMENT PLAN C

FOLLOW THE ARROWS. IF ANSWER "YES", GO ACROSS. IF "NO", GO DOWN

START HERE

Start IV fluids invreditately. If the patient can drink, give ORS by mouth while the drip is set up. Give 100 m/hg. Rhoger's Lactate Solution (or, if not available, normal saline), divided as follows:

Can you give Intravenous (IV) fluids immediately?

Then give 100 milkg in: 2 % hours Shours 30 minutes . First pive 30 milkg in: 1 hour

Infants (Under 12 months) Older

Repeal once if radial pulse is still very weak or not detectable

WITH DIARRHOFA

OF THE PATIENT

MANAGEMENT

Reassess the patient every 1-2 hours. If hydration not improving, give the IV drip more rapidly.
 Also give ORS (about 5 mikg/hour) as soon as the patient can drink: usuelly after 3-4 hours (infants) or 1-2 hours (older patients).
 After 6 hours (infants) or 3 hours (older patients), evaluate the patient using the assistment chart. Then choose the appropriate Plan (A, B or C) to continue treatment.

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Send the patient immediately for IV treatment.
 If the patient can viriak, provide the mother with ORS solution and show her how to give it during the trip.

Is IV treatment available nearby, (within 30 minutes)?

Are you trained to use a naso-gastric (NG) tube for rehydration?

Start rehydration by tube with ORS solution: Give 20ml he irs (total of 120 m/kg). retind every 1-2 hours:

pealed vorilling or increasing abdominal give the fluid more slowly. It is the fluid more slowly.

reassess the patient and choose the

Start rehydration by tube with ORS solution: Give 20 ml/kg/hour for 6 hours (total of 120 ml/kg). Reassess the patient every 1-2 hours:

YES

Can the persont drink?

- If there is repealed vomiting, give the fluid more

ration is not improving after 3 hours, send the

patient for IV therapy.

After 6 hours, reassess the patient and choose the appropriate Treatment Plan.

NOTES:

URGENT: Send the patient for IV or NG Leatment

If possible, observe the patient at least 6 hours after rehydration to be sure the
mother can mahlain hydration giving ORS solution by mouth.
 If the polient is above 2 years and there is choice in your area, give an
appropriate oral antibiotic after the patient is afert.

WORLD HEALTH ORGANIZATION

CD Programme for Diarrhoeal Disease



USE THIS CHART FOR PATIENTS WITH:

... loose or watery stools

loose stools with blood

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FIRST, ASSESS YOUR PATIENT FOR DEHYDRATION

1. LOOK AT: CONDITION **EYES**

> TEARS MOUTH and TONGUE

2. FEEL: SKIN PINCH

THIRST

3. DECIDE:

4. TREAT:

=

Well, alert

Norma

Present

Moist

Drinks norm not thirsty

Goes back quickly

The patient has NO SIGNS OF DEHYDRATION

Use Treatment Plan A

В

Restless, irritable

Sunken

Absent

Dry

Thirsty, drinks eagerly '

* Goes back slowly *

If the patient has two or more signs including at least one sign , there is SOME DEHYDRATION

Weigh the patient, if possible, and uso Treatment Plan B

Diarrhoeal Diseas, HORGANIE ethargic or unconscious; floppy

Very sunken and dry

Absent

Very dry

 Drinks poorly or not able to drink *

Goes back very slowly

If the patient has two or more signs including at least one sign , there is SEVERE DEHYDRATION

Weigh the patient and use

under 1 year of age

initially dehydrated

realment Plan C URGENTLY

41.11 See the child again after 2 days if: Teach the mother to feed the child as described in Plan

there is still blood in the stool

- Give it for 5 days. not getting better
- If the stool is still bloody after 2 days, change to a second oral antibiotic recommended for Shigella in your area.

GIVE THE CHILD PLENTY OF FOOD TO PREVENT MALNUTRITION

the child is not breast-fed,

give the usual milk.

Continue giving these fluids until the diarrhoea stops.

solid lood, give ORS solution or water rather than a for of these fluids as the child will take. Use the amounts

(Note: If the child is under 6 months old and is

If the child is a months or older, or already taking solid lood:

- Also giv. cereal or another starchy food mixed, if possible, with pulses,
vegetables, and meat or fish. Add 1 or 2 leaspoonfuls of vegetable oil to each

serving.

Give fresh fruit juice or mashed banana to provide potassium.

Give freshly prepared foods. Cook and mash or grind food we

Encourage the child to eat; offer food at least 6 times a day.

Give the same foods after diarrhoea stops, and give an extra næal each day for

IF DIARRHOEA HAS LASTED AT LEAST 14 DAYS

Refer to hospital if:

dehydration is present. (Refer the child after the child is under 6 months old

Otherwise, teach the mother to feed her child as in Plan treatment of dehydration.)

give only half the usual amount of milk, or replace milk

TAKE THE CHILD TO THE HEALTH WORKER IF THE CHILD DOSE NOT GET BETTER IN 3 DAYS OR DEVELOPS ANY OF THE FOLLOWING:

Blood in the stool Eating or drinking poorty

assure full energy intake by giving 6 meals a day of thick cereal and added oil, mixed with vegetables, with a fermented milk product, such as yoghurt.

if diarrhoea has stopped, tell the mother to:

give an extra meal each day for at least 1 month

diarrhoea has not stopped, refer to hospital

after 1 more week, gradually resume the usual use the same foods for the child's regular diet Tell the mother to bring the child back after 5 days: pulses, meat, or fish

CHILDREN SHOULD BE GIVEN ORS SOLUTION AT HOME,

They have been on Treatment Plan B or C

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They cannot return to the health worker if the diarrhoea gets worse.

It is national policy to give ORS to all children who see a health worker for

IF THE CHILD WILL BE GIVEN ORS SOLUTION AT HOME, SHOW THE MOTHER HOW MUCH ORS TO GIVE AFTER EACH LOOSE STOOL AND GIVE HER

ENOUGH PACKETS FOR 2 DAYS:

THE CHILD HAS SEVERE MALNUTRITION

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Do not attempt rehydration; refer to hospital for management

Provide the mother with ORS solution and show her how to give 5 ml/kg/hr during the trip

after rehydration, refer to hospital. Do not give paracetamol or an antimalarial. Rehydrate as necessary. If there is fever (38° C or above)

THE CHILD IS UNDER 2 MONTHS OF AGE:

THE CHILD IS 2 MONTHS OF AGE OR OLDER: SHOW THE MOTHER HOW TO MIX ORS

If temperature is 39 C or above, give paracetamol

If there is falciparum malaria in the area, and the child has

days, give an entimalarial (or manage according to any fever (38 C or above) or history of fever in the past 5

SHOW HER HOW TO GIVE ORS:

Give a teaspoonful every 1-2 minutes for a child under 2 years cup for an older

if the child vemils, wait 10 minutes. Then give the solution more slowly (for example

hulds as described in the first rule above or return for more diarrhoes continues after the ORS packets are used up, tell the mother to give other Describe and show the amount to be given after each stool using a local measure

10 years or more 2 up to 10 years

As much as wunted

2000 mliday 1000 ml/day 500 ml/day

100 - 200 ml 50 - 100 ml

Less than 24 months

Age

Amount of ORS to give after each loose stool

Amount of ORS to provide for use at home

TO TREAT DIARRHOEA AT HOME

HEN, FOR OTHER PROBLEMS

IF BLOOD IS PRESENT:

Shigella in your area.

Treat for 5 days with an oral antibiotic recommended

REATMENT PLAN A USE THIS PLAN TO TEACH THE MOTHER TO:

EXPLAIN THE THREE RULES FOR TREATING DIARRHOEA AT HOME.

Give early treatment for future episodes of diarrhoea. Continue to treat at home her child's current episode of diarroea

GIVE THE CHILD MORE FLUIDS THAN USUAL TO PREVENT DEHYDRATION:

- Use recommended home fluids. These include: ORS solution, food-based fluids

such as scup, rice water, and yoghurt

TO TREAT DEHYDRATION **IREATMENT PLAN B**

APPROXIMATE AMOUNT OF ORS SOLUTION TO GIVE IN THE FIRST 4 HOURS:	2-4 5-14 15 years or years or	g 11-15.9 kg 16-29.9 kg 30 kg or more	800-1200 1200-2200 2200-4000	*
IST 4 HOL	\vdash	9.9 kg	-2200	
E FIF	2.	16.	1200	
GIVE IN TH	2 - 4 ·	11 - 15.9 kg	800-1200	
OLUTION TO	12 - 23 months	8 - 10.9 kg	008-009	
T OF ORS SO	4 - 11 months	5-7.9 kg	400-600	
ATE AMOUN	Less than 4 months	Less than 5 kg 5-7.9 kg	200-400	
APPROXIN	. vôe .	Weight	E .s	in local

Use the patient's age only when you do not know the weight. The approximate anxiont of ORS required (in mt) can also be calculated by multiplying the patient's weight (in kg) times 75.

- If the child wants more ORS than shown, give more.
 Encourage the mother to continue breast-leeding.
 For infants under 6 months who are not breast-leed, also give 100-200 ml dean water during this period.

OBSERVE THE CHILD CAREFULLY AND HELP THE MOTHER GIVE ORS SOLUTION:

Show her how much solution to give her child.

- Show her how to give it a teaspoonful every 1-2 minutes for a chilis under 2 years, frequent sips from a cup for an older child.
- If the child vomits, wait 10 minutes and then continue giving ORS, but more slowly Check from time to time to see if there are problems.
 - If the child's eyelids become puffy, stop ORS and give piain water or tireast mith. Give ORS according to Plan A when the puffiness is gone. for example, a spoonful every 2-3 minutus.

AFTER 4 HOURS, REASSESS THE CHILD USING THE ASSESSMENT CHART. THEN SELECT PLAN A, B, OR C TO CONTINUE TREATMENT.

- If there are no signs of dehydration, shift to plan A. Winen dehydration has been corrected, the child usually passes urine and may also be tired and fall asleep.
 - If signs indicating some dehydration are still present, repeat plan B, but start to offer food, milk and juice as described in plan A.
- If signs indicating severe dehydration have appeared, shift to plan C.

IF THE MOTHER MUST LEAVE BEFORE COMPLETING TREATMENT PLAN B.

- Show her how much ORS to give to finish the 4- hour treatment at home
- Give her enough URS packets in complete rehydration, and for 2 more days as shown in plan A.
- Show her how to prepare ORS solution
- Explain to her the three rules in plan A for treating her child at home:

 to give ORS or other fluids until diarrhoea stops

 to feed the child

 to feed the child back to the health worker, if necessary.

FOR CHILDREN WITH DIARRHOEA USE OF DRUGS

ANTIBIOTICS should ONLY be used for dysentery and for suspected cholers cases with severe dehydration. Otherwise, they are ineffective and should NOT be given.

- ANTIPARASITIC drugs should ONLY be used for
- Amoeblasis, after antibiotic treatment of bloody diarrhoea for Shigella has failed or trophozoites of E. histolytica containing red blood cells are seen in the faeces.
- Glardiasis, when diarrhoea has lasted at least 14 days and cysts or trophozoites of Glardia are seen in faeces or small bowel fluid.
- ANTIDIARRHOEAL DRUGS and ANTIEMETICS should NEVER be used. None has proven practical value. Some are dangerous.

TO TREAT SEVERE DEHYDRATION QUICKLY TREATMENT PLAN C

C

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Control of Diarrhoeal Disease

WORLD HEALTH ORGANIZA

FOLLOW THE ARROWS. IF ANSWER "YES", GO ACROSS. IF "NO", GO DOWN

START HERE

Can you give intravenous (IV) fluids immediately?

Start IV fluids immediately. If the patient can drink, give ORS by mouth while the drip is set up. Give 100 ml/g Rings's Lactate Solution (or, if not available, normal salline), divided as follows:

Then give 100 ml/kg in: 2 1/2 hours 5 hours 30 minutes . 1 hour Infants (Under 12 months) Older

Repeal once if radial pulse is still very weak or not detectable

Improving, give the IV drip more rapidly.
Also give ORS (about 5 milkginour) as soon as the patient can drink: usuelly after 3-4 hours (infants) or 1-2 hours Reassess the patient every 1-2 hours. If hydration not

WITH DIARRHOEA

OF THE PATIENT

MANAGEMENT

(older patients).

After 6 hours (fulfants) or 3 hours (older patients), evaluate the reason and the sassessment chart. Then choose the appropriate Plan (A, B or C) to continue treatment.

YES Is IV treatment available nearby, (within 30 minutes)?

Send the patient immediately for IV treatment.
 If the patient can chink, provide the mother with ORS solution and show her how to give it during the trip.

YES Are you trained to use a naso-gastric (NG) tube for

Start rehydration by tube with ORS solution: Give 20ml/ kg/hour for 6 hours (total of 120 ml/kg). Reassess the prefer to every 1-2 hours:

If there is repeated vorinling or increasing abdominal distension, give the fluid more slowly.

If hydration is not improving after 3 hours, send the

After 6 hours, reassess the patient and choose the

lient for IV therapy.

Can the negant drink?

Start rehydration by tube with ORS solution: Give 20 milkg/hour for 5 hours (total of 120 milkg). Reassess the ratient every 1-2 hours:

- If there is repeated vorniting, give the fluid more

hydration is not improving after 3 hours, send the

patient for IV therapy.

After 6 hours, reassess the patient and choose the appropriate Treatment Plan.

NOTES:

URGENT: Send the patient for IV or NG treatment

- If possible, observe the patient at least 6 hours after rehydration to be sure the
 mother can maritial hydration giving ORS solution by mouth.
 If the patient is above 2 years and there is scholers in your area, give an
 appropriate oral antibiotic after the patient is slert.

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USE THIS CHART FOR PATIENTS WITH:

loose stools with blood

loose or watery stools

FIRST, ASSESS YOUR PATIENT FOR DEHYDRATION

1. LOOK AT: CONDITION

EYES

TEARS

MOUTH and TONGUE

₩

THE CHILD IS UNDER 2 MONTHS OF AGE

Provide the mother with ORS solution and show her how to give 5 ml/kg/hr during the trip.

Do not attempt rehydration; refer to hospital for management

HAS SEVERE MALNUTRITION:

-THIRST

2. FEEL: SKIN PINCH

3. DECIDE:

4. TREAT:

THE CHILD IS 2 MONTHS OF AGE OR OLDER

If there is falciparum malaria in the area, and the child has If temperature is 39°C or above, give paracetamol

days, give an antimalarial (or manage according to any fever (38 C or above) or history of fever in the past 5

your

Rehydrate as necessary. If there is fever (38' C or above) after rehydration, refer to hospital. Do not give paracetamo or an antimalarial.

Well, alert

Normal

Present

Moist

₩

THE CHILD

Drinks normally not thirsty

Goes back quickly

The patient has NO SIGNS OF DEHYDRATION

Use Treatment Plan A

В

Restless, irritable

Sunken

Absent

Dry

Thirsty, drinks eagerly

* Goes back slowly *

If the patient has two or more signs including at least one * sign *, there is SOME DEHYDRATION

Weigh the patient, if possible, and usoffeathent Plan B

C

Lethargic or unconscious: floppy

Very sunken and dry

Absent

Very dry

Drinks poorly or not able to drink

Goes back very slowly *

If the patient has two or more signs including at least one
sign there is SEVERE
DEHYDRATION

Weigh the patient and use realment Plan C URGENTLY

THEN, FOR OTHER PROBLEMS

BLOOD IS PRESENT

Shigella in your area.

Treat for 5 days with an oral antibiotic recommended

Teach the mother to feed the child as described in Plan A

See the child again after 2 days if:

under 1 year of age

initially dehydrated there is still blood in the stool

oral antibiotic recommended for Shigella in your area. Give it for 5 days. If the stool is still bloody after 2 days, change to a second not getting better

IF DIARRHOEA HAS LASTED AT LEAST 14 DAYS:

2. GIVE THE CHILD PLENTY OF FOOD TO PREVENT MALNUTRITION:
 Continue to breast-feed frequently.
 If the child is or breast-feed, give the usual milk.
 If the child is a months or older, or already taking solid food:
 Also giv., oreraid or another starchy food mixed, it possable, with pulses, vegetables, and meat or fish. Add 1 or 2 teaspoonfus of vegetable oil to each vegetables.

serving.
Give fresh fruit juice or mashed banana to provide potassium.
Give fresh prepared foods, Cook and mash or grind lood well.
Encourage the child to eat; offer food at least 6 times a day.
Give the same foods titler diarrhoea stops, and give an extra meal each day!

Refer to hospital if:

the child is under 6 months old

dehydration is present. (Refer the child treatment of dehydration.)

after

Otherwise, teach the mother to feed her child as in Plan A,

except:

give only half the usual amount of milk, or replace milk

with a fermented milk product, such as yoghurt. assure full energy intake by giving 6 meals a day of thick cereal and added oil, mixed with vegetables, pulses, meat, or fish.

 If diarrhoea has not stopped, refer to hospital. if diarrhoea has stopped, tell the mother to:

after 1 more week, gradually resume the usual use the same foods for the child's regular diet

give an extra meal each day for at least 1 month

CHILDREN SHOULD BE GIVEN ORS SOLUTION AT HOME, IF:

TAKE THE CHILD TO THE HEALTH WORKER IF THE CHILD DOSE NOT GET

BETTER IN 3 DAYS OR DEVELOPS ANY OF THE FOLLOWING:

Many watery sloots

Repealed vorning

Marked thist

Blood in the stool

They have been on Treatment Plan B or C

They cannot return to the health worker ii the diarrhoea gets worse

It is national policy to give ORS to all children who see a health worker 10

IF THE CHILD WILL BE GIVEN ORS SOLUTION AT HOME, SHOW THE MOTHER HOW MUCH ORS TO GIVE AFTER EACH COOSE STOOL AND GIVE HER **ENOUGH PACKETS FOR 2 DAYS:**

10 years or more 2 up to 10 years Less than 24 months Age Amount of ORS to give after each loose stool As much as wanted 100 - 200 ml 50 - 100 ml Amount of ORS to provide for use at home 1000 ml/day 2000 miliday 500 ml/day

Describe and show the amount to be given after each stool using a local measure.

SHOW THE MOTHER HOW TO MIX ORS.

SHOW HER HOW TO GIVE ORS:

Give a leaspoonful every 1-2 minutes for a child under 2 years.

Give frequent sips from a cup for an older child

If the child vemils, wait 10 minutes. Then give the solution more slowly (for example,

I diarrhoea continues after the ORS packets are used up, tell the spoonful every 2-3 minutes)

mother to give other

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EXPLAIN THE THREE RULES FOR TREATING DIARRHOEA AT HOME

Continue to treat at home her child's current episode of diarroea Give early treatment for future episodes of diarrhoea.

USE THIS PLAN TO TEACH THE MOTHER TO

GIVE THE CHILD MORE FLUIDS THAN USUAL TO PREVENT DEHYDRATION:

such assume nume numes. I nese include: ORS solution, food-based fluids solution service, and yeghurt drinks) and plain water. Use ORS solution for children described in the box below. (Note: If the child is under 6 months old and is not yet lasking solid food, give ORS solution or water rather than a food-based fluid). Give as much of these fluids as the child will take. Use the amounts shown below for ORS as guide.

Continue giving these fluids until the diarrhoea stops.

TO TREAT DIARRHOEA AT HOME

TREATMENT PLAN



Control of Diarrheal Diseases CDD:

Objectives By the end of this lecture you will be able to: Define and classify diarrhea Identify the level of dehydration according to the CDD program adopted by WHO Follow the guidelines of managing a child with diarrhea
Control of Diarrheal diseases (CDD) Diarrhea: Passage of liquid or watery stool for at least 3 times during 24 hours. Consistency is more important than frequency. Breast fed infants usually pass semi-solid, pasty and yellow stools. Sometimes, they pass stool after each breast feed. This is not diarrhea.
Control of Diarrheal diseases (CDD) Acute which lasts for less than 14 days
Persistent which lasts for 14 days or longer
Dysentery when there is blood in the stool Either amoebic or bacillary
Control of Diarrheal diseases (CDD) Facts The 500,000,000 children under 5 y of age are the major victims of diarrhea, It is estimated that U5 children may develop 1-12 episodes (attacks) of diarrhea per year, This will lead to growth failure & complications. Annually 3,000,000 children die from diarrhea all over the world. This means 6 children per minute. Impact A high percentage of hospital beds are occupied by children with diarrhea usually present at the late stage of severe dehydration, which requires admission to hospital, professional care, drugs, fluids, giving sets, etc. (very high cost). The prognosis is usually bad probably ending in death.
Causative Agents; Viruses, Bacteria & Protozoa Contributing Factors: unclean Water (Mothers & Kids), Dirty Hands, Spoilt Food (not well preserved)
Control of Diarrheal Diseases (CDD) growth retardation under weight Malnutrition 25gm loss of weight for each day of diarrhea
Causes of weight loss:
Reduced absorption,
Reduced food intake,

Catabolic losses, Reduced immunity leading to further episodes of diarrhea Dehydration is a protective mechanism. Diarrhoeais a protective mechanism. It washes away micro-organisms and toxins from the gastro-intestinal tract. It is usually self limiting and is not a killer. Dehydration Is the killer It is a defence mechanism where the body will increase peristalsis & fluid loss. The amount of fluid in a child is limited & this will lead to a fluid- electrolyte deficit". Is a deficit in water and electrolytes (Sodium, Potassium, Chloride and Bicarbonate) resulting from losses in stool, vomiting, urine, fever, sweat and breathing. When these losses are not adequately replaced, this deficit will develop. Aim is to assessDegree of dehydration; No dehydration, some dehydration and severe dehydration. Clinical type of diarrhea; Acute watery, Acute bloody or Persistent diarrheaNutritional statusConcurrent illnessesImmunization status Clinical type of diarrhea Acute watery Loose or watery stools without visible blood, Duration less than 14 days (usually 5-7 days). Acute bloody Loose or watery stools with visible red blood, Duration less than 14 days. Persistent diarrhea Loose or watery stools with or without visible blood, Duration 14 days or more Assessment of Diarrhea cases for dehydration Classification Sign General Condition: Lethargic, Unconscious Restless, Irritable Well, Moist Alert Sunken*Absent Very Dry Sunken *Dry, Normal Eyes Tears Mouth & Tongue. Eager to drink, Drinks normally Thirst Unable to drink, Skin pinch. Goes Back Very Slowly (2 or more second), Goes Back Quickly Severe Dehydration, Some dehydration, No Dehydration Plan C (Hospital) Plan B (PHC) Plan A (Home)Treatment

Assessment of Diarrhea cases for dehydration Treatment plan Estimated fluid deficit Loss in body weight Degree of Dehydration: A < 50 ml/kg < 5 % No signs of dehydration. B 5-10 ml/kg % Some dehydration C > 100ml/kg > 10 % Severe dehydration In a diarrhea case, sometimes we don't have the 4 signs in the same category. Two signs in the category, are enough to classify the case. E.g. 1 sign in A & 1 sign in B + 2 signs in C, so we classify as C. | Treatment plans; Plan A The aim is to prevent dehydration from occurring. The steps are: Give extra fluid: ORS (Oral Dehydration Solution) & home fluids. Continue feeding of children (breast or other). Teach the mother: How to prepare and give ORS (1 litre of water "2 milk bottles or 4 bottles of Coke" then we add the sachet & give by cup & spoon or by cup directly, to be used within 24 hr of preparation, "she must discard what remains after 24h i.e throw it away", to give him ml every time the child passes stool. Signs of dehydration & the danger signs by showing her pictures of the main signs of dehydration & telling her to bring her child immediately to the health center if such signs occur. Treatment plans; Plan B The aim is to correct dehydration. The steps are: Give ORS in the health center: Child's weight (kg) x 75 ml = volume given over a 4 hr period. Assess every hour. Continue feeding or breast feeding. Give ml of clean water. (for Bottle fed) Teach mother to prepare & give ORS correctly (cup and spoon), as in plan A. Assess every hour. If the child vomits the ORS, wait for 10 minutes and then restart giving him the solution slowly. Reassess after four hours, classify according to the hydration status, and use the appropriate plan accordingly.

Note: Puffiness of the face & eyes is a sign of over hydration. In that case; Stop ORS, give fluids that doesn't contain much salt, give the fluid slowly & send the child for home treatment when puffiness has gone.

Role of Breast feeding throughout an episode of diarrhea: Reduce the severity & duration Reduce the risk of dehydration Reduce the risk of diarrhea worsening nutritional status.



П	Name of the	-			31	_
١	Treatment	pla	ins:	PI	an	C

The aim is to correct dehydration urgently (immediately).

Route: Intra-Venous or Naso-Gastric tube (we have to act quickly) In IV: give Ringer's lactate solution. If it is not available, use normal saline. Calculate the amount of fluid using the following formula: Weight (kg) x 100ml over a period of 3 hours for children over the age of one year, and over 6 hours for infants, according to the following table:

Amount of IV fluid/unit time (100ml/ kg):

According to Age:: First 30 ml/kg <1 year through 1h and Second 70ml/kg through 5h

First 30 ml/kg >1 year through 30 min and Second 70ml/kg through 2 hrs 30 mins.

Note: DO NOT attempt Naso-Gastric tube as it is not practiced in this country. The steps are: Reassess every hour, if no improvement, give fluid more rapidly. If the patient can drink, give ORS in 5ml/kg body weight/hr Reassess after completion, classify according to the hydration status & choose the appropriate plan accordingly.

Oral Rehydration Solution

Composition: Sodium chloride: 3.5 gm, NaHCO3: 2.5 gm, KCl: 1.5 gm, Glucose: 20 gm, In 1000ml (1litre) of water. Some replace NaHCO3 by 2 gm Tri-sodium Citrate Di-hydrate which lessens vomiting, is tastier and more stable in humid and hot areas.

Advantages of ORS: Cheap, effective and easy to give at home by the mother. This is why 95% of the cases are treated by ORS, as children will not develop dehydration, when they get diarrhea. Preparation of ORS: The water should be boiled and cooled before the powder is added to avoid the loss of bicarbonate, and changes of concentration. In winter, warm the solution to 40oC to increase acceptability, increase the rate of absorption, decrease vomiting & decrease the risk of a drop in the body temperature when large volumes are consumed.

If no ORS is available we use home prepared fluids or household food solutions, rice water, soups, fruit juices, salt and sugar solution (one teaspoon of salt + one table spoon of sugar).

Diarrhea case fatality rate has decreased a lot after the introduction of the ORS, due to the prevention of dehydration.

Management Management	of Ch	ronic (Pe	ersistent)	Diarrhea
child is under 6 more dehydration is correct months and not dehy to hospital. If diarrhe an extra meal every energy intake: 6 movegetables, fish or move water or replace with management is mainly	drated and the drated-Reass a has stopped day for one eals per day eatDilute and the fermented	case is fully a sess in 5 days. I, resume the u month, use a of thick cere ay animal milk	assessed. chil If diarrhea p asual animal r growth charts eals, added with an equa	d is over 6 ersists refer nilk & give s Increase oils or fat, I volume of
Management Bacillary Dysentery trophozoites Co-trim GSE: amoebic trop Metronidazole (Flagg	Severe cli oxazol or anti phozoites are	inical picture bacterial of ch	GSE : no oice Amoebio	o amoebic Dysentery
Drugs not to be a Anti-bacterials: Most there is lab evidence dysentery). They will inhibition of the grow	t cases are vira of bacterial in I eventually le	al. Antibacteriantections (main and to secondar	ly cholera and	d bacillary
Anti-protozoal: Use dysentery or giardias GIT. Mycostatin is moniliasis.	is. Mycostatir	n: Monilia is a	normal inhab	itant of the

Anti-motility agents and anti-spasmodics: As they may cause paralytic ileus in children. Pectocaolines: Will coat the GIT, allow colonization of the GIT bacteria with bacteria and lead to persistent diarrhea.

Anti-emetics: May cause CNS symptoms.

Control of diarrheal diseases

Objectives of lecture Objectives, targets and strategies of CDD	
Importance of the National CDD Program □ Types of Diarrhea □	
Symptoms & Signs of Diarrhea □ Assessment of Degree of Dehydrat	ion
☐ Diarrhea treatment plan given in WHO charts	
Disease Burden of Diarrhea ☐ 2nd leading cause of death in under 5	year
olds □ Each year diarrhea kills 760, 000 children under 5 □ Globally	there
are 1.7 billion cases of diarrhea each year Diarrhea is the leading ca	ause
of malnutrition in children under 5 year of age	
of manualition in elimaten ander 5 year of age	

Objectives of the National Program for Control of Diarrheal Diseases:

Reduction of:

- I. Mortality due to diarrheal diseases
- II. Morbidity due to diarrheal diseases
- III. Report of Hospital admissions due to diarrhea
- IV. Number of outbreaks reported in an year

Strategies:

- I. Implementation of standard case management at all hospitals
- II. Train Hospital and PHC staff for prevention and control of diarrhea
- III. Develop & print IEC material for social mobilization
- <u>IV.</u> Strengthen surveillance of diarrhoeal diseases and outbreak investigation
- <u>V.</u> Strengthen laboratory surveillance(monitoring of organism)
- <u>VI.</u> Improve environmental sanitation (safe drinking water and sanitary latrines)

☐ Strategies in using ORS & Rehydration:

- Field coordination * Operational "Rehydration Centers" in healthcare stations
- II. Production and Distribution * ORS "Oral Rehydration Salts" have to be produced and sent to health stations * To be made available as OTC
- III. Mass Media * Create awareness and demand for ORS/ rehydration solution
- IV. Training * Producing materials, programs to educate and train doctors, nurses and related healthcare professionals
- V. Research and Evaluation * Providing grants and allowances for those involved in research and also evaluating the effects of ORS in the management of diarrhea

<u>Importance of the National Program for Control of Diarrheal Diseases</u>

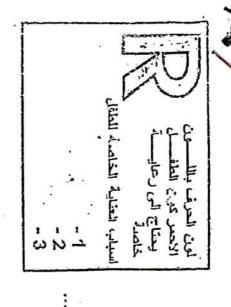
Less Mortality rate of under 5 children (per 1000 live births) Reasons for reduced mortality • Breast feeding • Maternal education • Vaccination Safe drinking water • ORS ☐ Managing and preventing diarrhea is most important What is diarrhea? Passage of unusually loose or watery stools usually at least three times in a 24 hour period. However it is the consistency of the stools rather than the number that is most important. Types of diarrhea: 1. Acute watery diarrhea (including cholera) 2. Acute bloody diarrhea (dysentery) 3. Persistent diarrhea (lasting 14 days or more) 4. Diarrhea with severe malnutrition Causes 1. Infection | Feco-oral transmission | Contaminated food or water \(\subseteq \text{Viral}, \text{ bacterial and parasitic } \(\subseteq \text{Viruses} : \text{Rotavirus Enterovirus} \) Bacteria: E. coli Shigella Camylobacter jejuni V. Cholerae Salmonella (non typhoidal) Protozoal: Giardia duodenalis Entamoeba Histolytica Cryptosporidium 2. Malnutrition Diarrhea makes the small intestinal villi damaged and unable to absorb nutrients and thus making them prone to more infections (Vicious Cycle) Symptoms

Fever Loose stools (frequency and consistency) Water/mucoid/blood stained □ Vomiting and nausea □ Generalized body ache □ Reduced UOP (<5 times per day/<5ml/kg/hr) □ Dizziness/feeling unwell Signs ☐ Feberile (>98.4 F) ☐ Dehydrated (eyes, tongue and skin tugor) ☐ CRFT<2 seconds □ Pulse rate (tachycardia) □ BP (diastolic rise, and then systolic fall) □ Pulse pressure narrowing (<20mmhg) □ Altered level of consciousness
Fits Assessment of Dehydration Evolution of CVS clinical signs with dehydration: No Dehydration Some Dehydration Severe Dehydration **Normal Pulse** Tachycardia Absent pulse **Normal Pressure** Diastolic pressure rises Systolic drops -> unrecordable pressure Fluid Deficit <5% of BW or 50 ml/kg 5-10% of BW or 50- 100ml/kg > 10% of BW or

100ml/kg www.doctordinusha.info
Oral Rehydration Salts (Jeevani) Water absorption happens in the
small intestine via an osmotic gradient created by Na and Cl ions
□ ORS contains constituents which increase the absorption of water,
replace potassium lost in stools and correct acidosis
□ NaCl
□ KCl
□ Na Citrate (counter acidosis)
□ Glucose .
Na 75mmol/l
Cl 65mmol/l
Glucose 75mmol/I
K 20mmol/l
Citrate 10mmol
Preparation and storage of ORS Add all contents to 1 1 of boiled
water (some packets can be dissolved in less amount of water) □ Avoid
adding extra sugar or salt □ Once prepared keep only for 24 hours
Principles of Diarrhea Management:
☐ Correct dehydration
☐ Maintenance of hydration
☐ Provide electrolytes
☐ Correct acidosis
☐ Antibiotic therapy when needed
☐ Re colonization with normal flora
Special Precautions:
□ Assess every 4 hours
☐ Stop it if the child is having swollen eyelids (continue with breast milk
and plain water)
☐ Don't give if vomiting
☐ Don't give if lethargic or drowsy (take the child to the hospital)
Managing a child/adult with diarrhea without dehydration
☐ Main aim is to replace the ongoing fluid and electrolyte losses and to
supply the daily maintenance
☐ Ongoing loss: ♣ Per each loose motion give 100-200 ml of ORS (<2yr
old=100ml, >2yr old=200, teen = as much as they want)
The maintenance is calculated with the Holliday and Segar equation
Managing a child/adult with diarrhea with some dehydration
☐ Better to be managed at the hospital setting
\Box The fluid loss has to be replenished by ORS, calculated as, Wt(Kg) *
75ml/kg In initial 4 hours
☐ Reassessment is needed to decide on further Mx.

	The maintenance is calculated with the Holliday and Segar equation
\mathbf{N}	lanaging a child/adult with diarrhea with severe dehydration
	Will need iv fluids ASAP. (Give 100ml/kg)
	ccording to Age:: First 30 ml/kg <1 year through 1h and Second
	0ml/kg through 5h
F	irst 30 ml/kg >1 year through 30 min and Second 70ml/kg through 2
	عرط مراح کا می می این این می می می این م
F	urther points in management:
·	1. Oral fluids
	□ Rice Kanjee
	□ Rice water (salted)
	□ King coconut water
	□ Soup (vegetable/chicken soup-salted)
	2. Continue breast feeding
	3. Probiotic/Prebiotic mixtures (Bifilac/Prezolac)
	4. Multivitamins with Zinc salts
	5. Antibiotics if suspecting bacterial or dysentery
(1	furazolidone/cephalosporin)
	6. Continue with normal feeds ♣ Yoghurt ♣ Protein rich food
P	reventive measures:
	. Hand hygiene
Department of the control of the con	. Care in food preparation
	. Safe drinking water
4	. Sanitary latrines
- 5	. Preventing malnutrition www.doctordinusha.info
S	ummary Diarrhea is a real problem, especially for children (<5 yr
o	lds)
	Oral Rehydration Salts (ORS) are a major find in combating diarrheal
	iseases
	Proper diagnosis and assessment of dehydration is required
	Proper rehydration method is needed
	Proper supportive therapy is needed
	EIC methodologies are needed (Not limited to papers, radio or TV ow)
40	ment in hosp: Ital of plan C W Plaid [1Kg > butons mean quick we according to age (Type of 1/3 or 1/15
-> Manag	I'm I to men quick to according to age (Type of
a maon	1/3 07/1/5
->1st 101	Eg of body wit x 100 - 0
and los	kg of body wt x 100 -> - @ kg of body wt x 50 -> - @ nant of b.w x 20 -> result given through 24 har 2 bi(bulow)
15th the Keme	nent of b.w x 20->
then ad	d O+O+O then subtract (4) -> vessit given through 24
4	£. 2) (64/04)

4.



....... #IZE

.....مدينة حي مخلة ترقاق رقم الدار

علوان الطلل : محافظة

طد التسجرل والمهت مايلي :

الطافي

فصيلة. الذم و Rh محيط الذراع

الهنت

الطول محيط الراس

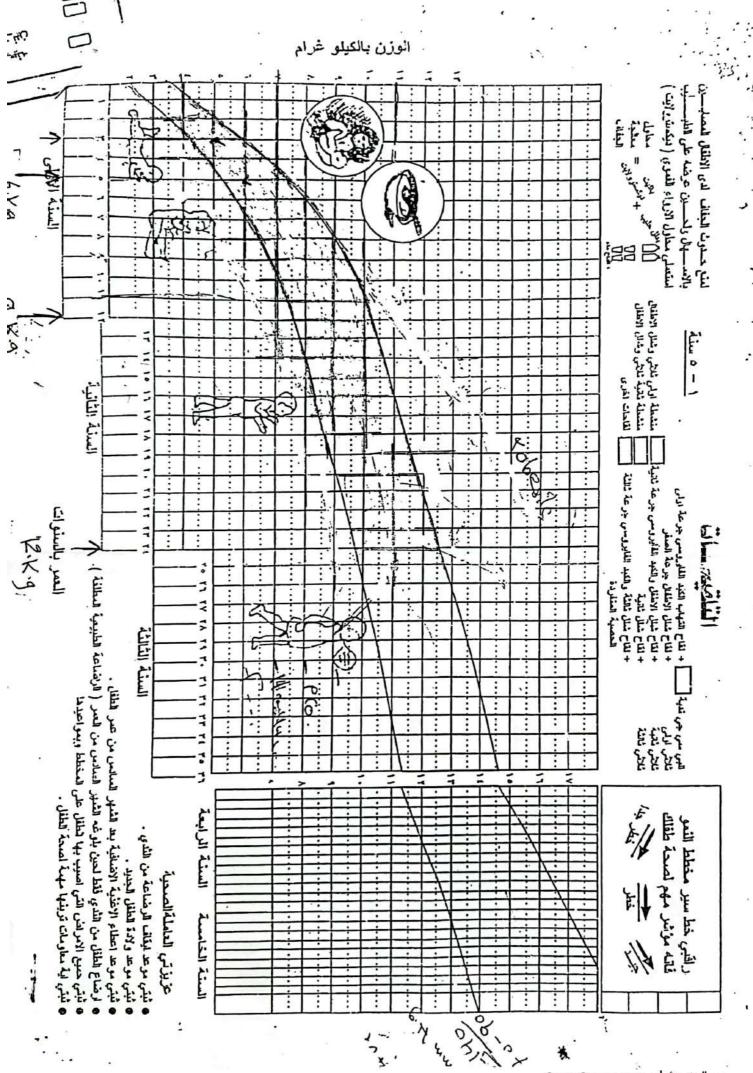
خدمات رعاية الام والطفل جمهورية العراق وزارة الصحة

مركل الرعاية الصحية الاولية أني /

المستمارة الطفل /

Constitutional bandwhasan كالميمة المديد يدون

رقم العلقل المراد



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K	0000	00000	000,0	00000	000 0	\	1
	٧ يشهر ا- يتعرف ويستدير مباشرة عند ذكر اسمه ٢- وافظ بعض الكلمات ذك معنى: ٢- وستطيح أن وفهم معنى يعض الأسللة مثل (اين عينيك، اين حذتك، اين ر اسك) ٤- قدرتهال أو يُعطي الأشياء إلى الكبار عندما وطلب منه ذلك	المتلهد ا-متلهف ومنتبه للأصنولت اليومية. ٢- ولفظ بتأن معاولا بمحاورة الاغرين. ٢- وصرخ لجذب الانتباء ثم وصعت ثم يصرخ ثانية ٤- وصدر صوتا متكررا ثابتا مثل (مام/ دادا/ بها) ٥- يستجيب لبعض الاسئلة بالنظر مثل أين بها؟ أين الساعة؟	الشهو المستدر مباشرة ويانسخاً، نعو مصدر صوب لمه عبر الغوفة الإيترف الى فغمات نفسه والاخوين. يستجيب باصوات غنائية أو باصوات او مقاطع الخيارة منزوية من دوية مثل أه، موء كو، ادا، ماه. المجارة منزج لسانه تقايدا الكبار عدوسر خاطد الإنزعاج	المشهد الأصوات العالية ترعجة ويرمش ببينه ويركل الأصوات العالية ترعجة ويرمش ببينه ويركل الأصوات العالية ترعجة ويرمش ببينه ويركل الإصوات الدين رأسه وعينيه باتجاه مصدر الصوت ٤- يمين أو يلمق شنتره تهيئه لعملية الرضياعة ٤- يمين أو يلمق شنتره تهيئه لعملية الرضياعة ٥- يظهر الإثارة عند سماعه أصوات قريبة، خطوات الأثدام، دقلت جرمن الغ ملاحظة والمساعدة عبدانه الطبق الأطرش عند ظهور المدبصورة مفلجة بجانب السرير	اشهر د پونل عند سماع صوت مفاجيء، يتبسم، يرمش ويتصلب جسمه ويريخر بعيله ٢- تتولف حركته بصورة مؤقتة (بجمد) لمدة ٢-٥ ثولن عند مماهه صوت رنين الجرس على بعد ٢-٥. لتج من الأئن ٢- يبكي بقوة عندما يبوع لو يكون غير موتاح ٤- يبدي المتداما بصوت الأشخاص عند الكاثم أكثر من بقية الأصوفت	ائسمع ⊹ اٹکلام	تمودجي للطفل حديث الولادة
	 ١- يستخدم إصبيعي السبابة والإبهام الانتفاظ الأشياء الصنيرة (مسكة الكداشة) ١- ينتفل في الانتجاء الصحيح للألعاب ١- ينتفل في الانتجاء الصحيح للألعاب ١- ينتا بنترى الاشياء بترو وتأن وليس مصائفة او عن غير قصد كما كان ينمل سابقا ١- ينتعرف على الأشخاص المالوفين لديه ٥- يتعرف على الأشخاص العالوفين لديه 	هشهر النظر بشدة للاشخاص والأشواء الـ وينتبه بالنظر بشدة للاشخاص والأشواء الـ وينتبه بالنظر بشدة للاشخاء المحسورة بأستمال الأصابع والإبهام المحسورة بأستمال الأصابع والإبهام المحسورة بأستمال المحسورة بأستمال المحسورة بالمحسورة	الشهر التمليع أن يعدل جسمه لروية بعش الإشياء بادارة وقبته الوراء او الاتحداء لكي يرى الاشياء التي يود رؤيتها . التي يود رؤيتها . ٢- تتحرك العينين بتسجام (أي حول في هذا العمر يعتبر غير طبيعي بصورة مؤكدة) ٢- يبتسم ويتاغي عندما يرى صورته في المواة ٢- يبتسم ويتاغي عندما يرى صورته في المواة ٤- يحاول استرجاع الخرخاشة بعد ليمناطها . ٥- إذا كان في وذيه مكمها وأصلي مكمها أخرا فقه يُستط المكمب الاول ليسمك الشاتي .	امشهر المتلوة المتدلوة من جهة الى لغرى وبحدود (١٨٠ برجة) ويركز بنظره على مكانها بسرعة السلام الميثيم المتدلوة من جهة الى لغرى وبحدود (١٨٠ برجة) ويركز بنظره على مكانها بسرعة السلام ١٠- يركن الدلال منتبها جدا وينظر الى الوجوه باهتمام. ١- يراقب حركة يديه ١- يميز شي أمه ويكون متلهنا وفرحا عند رويته ١- يميز شي أمه ويكون متلهنا وفرحا عند رويته ١- يادن مفتوحتان وليست كما في الأماييع الأولى حيث تكون مسدودة بقوة	الشهر ١-يدور يوزآننه وعينيه نحو مصدر الضوء ٢-يو الف الانتخاص، يتتبع الاجسام المتحركة ٢-ينتبع الضوء الصلار من قلم صوفى على بعد قدم واحد.		التطول النمو برجي للعلق

ملاحظة: يرجي وضع خلامة (صح) في العربع المناسب للفعل أو النشاط الذي وزدوله الطلل ويضعن فلته العمرية

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Child Care Services

It is an important part of MCH, it is conducted by the use of special chart for monitoring growth and development of child from birth up to five years of age, intervention at any time to correct any health problem or disorder.

Steps of child Care

- 1. Registration
- 2. History / data collection for the baby, (name, sex, age, residence, date of birth, type of labor, place of labor, type of birth attendance, height, weight, blood group and Rh for baby and parents, duration of pregnancy by weeks, type of pregnancy, complication in pregnancy, weight of baby at birth, height of baby at birth
- 3. History taking for parents: name, age, educational level of parents, degree of relation between them, number of children a lives and dead, number of congenital anomalies, rule of baby in the family, date of last labor, date of marriage, history of antenatal care.
- 4. Medical and surgical history of the child.
- 5. Family history of (convulsion, TB, Atop, hemolytic, hereditary, bleeding, others, Thalassenia
- 6. Nutritional history: type of feeding
- Vaccination history: number of vaccine taken according to vaccine schedule.
- 8. Examination of the child:

 - Systemic exam :chest, heart, abdomen, liver and spleen,
 hernia, renal system, stream of urine, anal orifice and others.
- Put the child on growth chart: which is defined as a chart that is
 used to monitor child growth and development and determine
 child nutrition and his vaccination program. it is consist of two



axes, the vertical one for the weight in Kg, while the horizontal for the age in month from one month up to five years of age.

Normal growth line of the child characterized by:

- It should be always ascending upward.
- It should be within the green area (safe area of growth)

Causes of abnormal growth and deviation of growth line from normal:

*causes of deviation of growth line above green area could be (over consumption, hormonal or metabolic disorders, hereditary).

*causes of deviation of growth line below the green area mean the line becoming horizontal or descending downward (infectious disease like ARI or DD, chronic disease like cardiac or renal or other, metabolic disorder, economic causes affect the family, social problems within the family as loss of parent, health problems of mother as medical or surgical or psychological problems.

Malnutrition: it is abnormal nutritional conditions result from either

- 1. Under nutrition.
- 2. Over nutrition.

NOTE: any serious health problem affect the child should be color the letter R with red which mean this child needs special care.

Last step is to arrange all the information collected (objective and subjective data) in the last table about routine child examination, and the date of next visit depend on date of vaccination or on need.

scheduale of visit: every amonth -> 2y
every brank >> 5y

Introduction

- Definition of ARI..
- Worldwide, (ARIs) are a major cause of morbidity and mortality in emergencies especially in developing countries including PAKISTAN
- ARI responsible for 20% of childhood (< 5 years) Deaths ,90% from pneumonia.
- Six to eight respiratory tract infections per year (2-3years)
- infection, 30% are lower respiratory . 70% of which are upper respiratory nfections.

The contino of the training

Reduce mortallity of children < 5 years of age elinominend of eule

Raitionalize the use of antibiotics and other drugs in ARI

Strategy:

- Standard case mainagement of ARI

- Immunization

 Improved feeding practices esp. BF Education of mothers

To reduce inappropriate use of antibiotics and other drugs for the treatment of ARII To reduce mortality from ARI esp. from YIVI (O) CYT / NU POTT in young children. prieumonia

ARI control

Improving the primary medical care services and developing better methods for early detection , treatment and prevention of acute respiratory infection is the best way to control ARI

mortality rate due to pneumonia is reduced if treated correctly Education of mothers about pneumonia because compliance with treatment and seeking proper care when child suffers determine outcome of the disease

الممسوحة ضوئيا بـ CamScanner

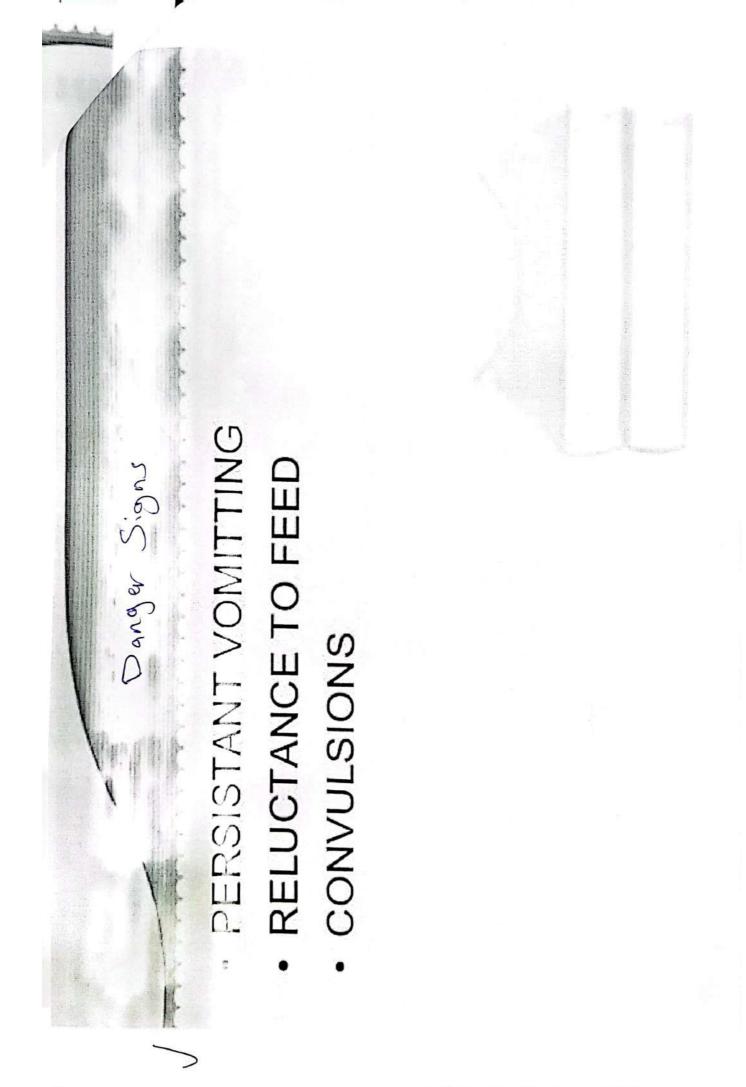


Breathing count depends on the age of the child -40 breaths/min or more in a child aged 12 months -60 breaths /min or more in a child less than two -50/min or more in child aged 2months upto 12 Fast breathing is present when RR is Count respiratory rate for a minute 1: count the breaths in one minute Physical examination months of age upto 5 years months

Occurs when the enfort required to breath in is much Occurs due to narrowing of trachea , lanynx or Child has much wing in the laws are as well goes in LOOK forchest indraw ing when chis breatning Harsh noise while breathing IN is stridor Wilden - To office of the Comment greater than normal Chast indicaming. epiglottis Stridor

These conditions often called croup

 A child with wheeze makes a soft whistling noise shows signs that breathing OUT is difficult This is due to narrowing of the air passages Check for body temperature O R Sign of hypoxia Cyanosis Wheeze Fever



ASKABOUT RISK FACTORS:

➤ Exposure to cold weather

➤ Hx of bith problems

➤ Poor nutritional status

➤ Early weaning

✓ Immunization

➤ Poor socio-economic status

▶ Parental smoking

Chronic use of drugs (affect immunity)

▶ Family history

OOK AND LISTEN

- > Respiratory rate
- Tachypnea 3 months > 60
 3 months 1 year > 50
 1year -4 years > 40
- ▼ Chest indrawing

>5y >20

- ► Listen for stridor
- ▶ Listen for wheeze. Is it recurrent?
- ▶ Look for cyanosis
- See if the child is abnormally sleepy, difficult to wake, or restless
- ➤ Body temperature
- Signs of malnutrition (Marasmus, Kwashiorkor)

Malnutrition

- If malnutrition is present its high risk and case fatality rates are higher
- In severely malnourished:
- children with pneumonia, fast breathing and chest indrawing may not be evident
- hypoxia and a weak or absent cough 2)Impaired or absent response to
- reflex 3)Careful evaluation and mangement



ARICOMEROIPNO GRAMMES

CANAL GOINGROUM GAILGROUP

- resulting from infection of any part of respiratory ARI is an episode of acute symptoms & signs
 - गेलंदे थे related structures
- Constitutes 22-66% of outpatients & 12-45% of
- inpatients
- In India: 10-50 children die per 10,000 episodes

of ARI

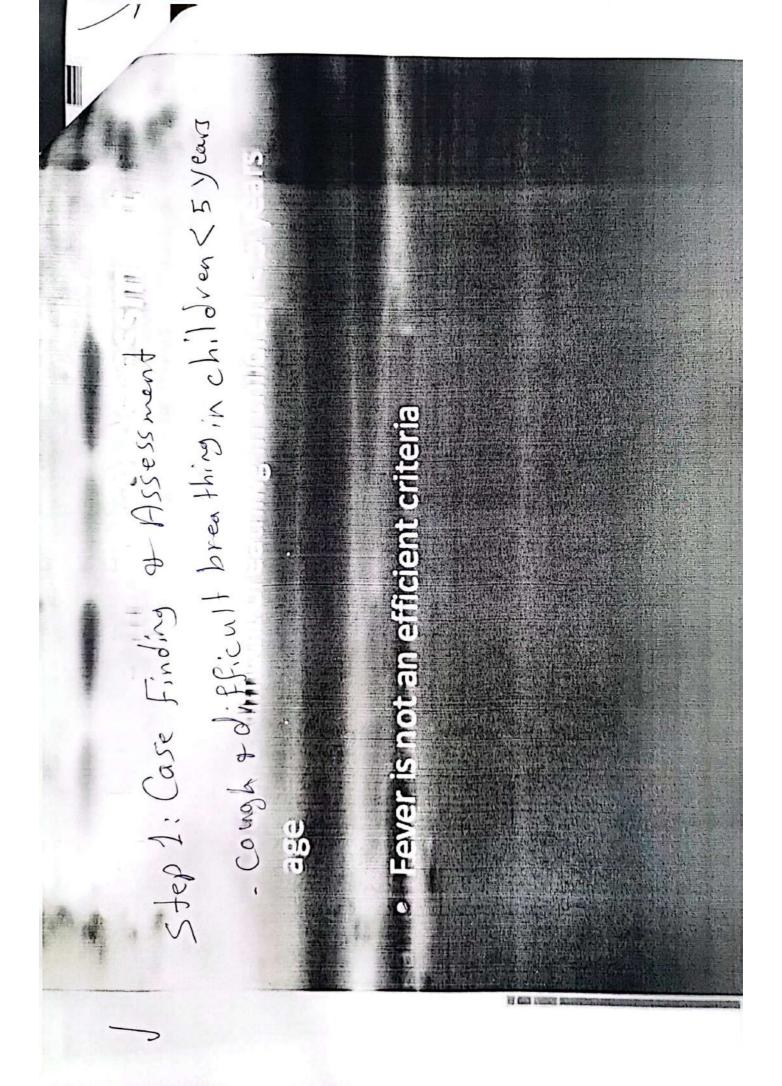
ARI control programmes

workers to recognize easily & reliably identifiable ARI at the community level by training the field Crux of the program is to identify children with clinical signs of ARI & early reference

WHO protocol comprises 3 steps:

- 1. Case finding & Assessment
- 2. Case Classification
- 3. Institution of appropriate therapy





Step 2: Case Classification

- Children grouped into 2:
- Infants < 2months & Older children
- Specific signs to be looked: In younger children like feeding difficulty, lethargy, hypothermia, convulsions

- Parumoniais diagnosed if R 60 Inin wish Combination of Ampicillin & Gentamicin A Shabile receive in medicentions - • Minimum duration of 10 days - All should be hospitalized In infant < 2 months

step 3:Institution of appropriate therapy Antibiotics

Walter and the contain the mathers antibodies which help profest the infant from "IC. fued or drinks, not even waster) far the Rishsia months brews milkilhous in lexallert nutribonal Breast feeding infants exclusively (no other prevention of MR infections.

cooking fires; avoid the use of dried cow dung Avoiding irritation of the respiratory tract by indoor air pollution, such as smoke from as fuel for indoor fires.

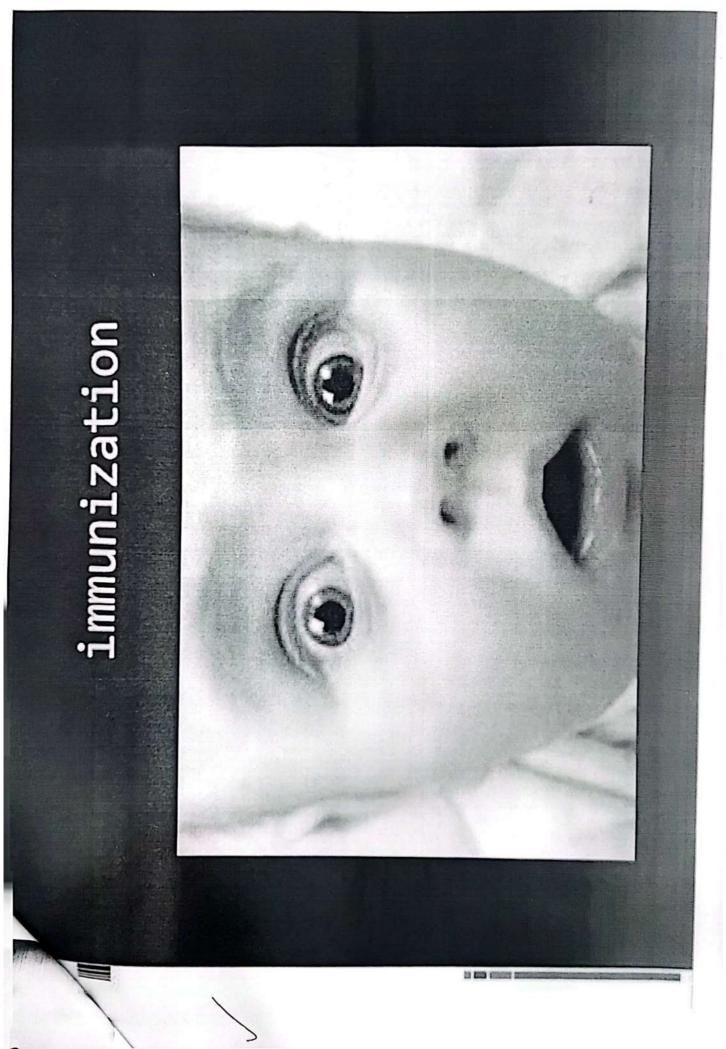
Immunization of all children with the routine Expanded Programme on Immunization

 Feeding children with adequate amounts of varied and nutritious food to keep their

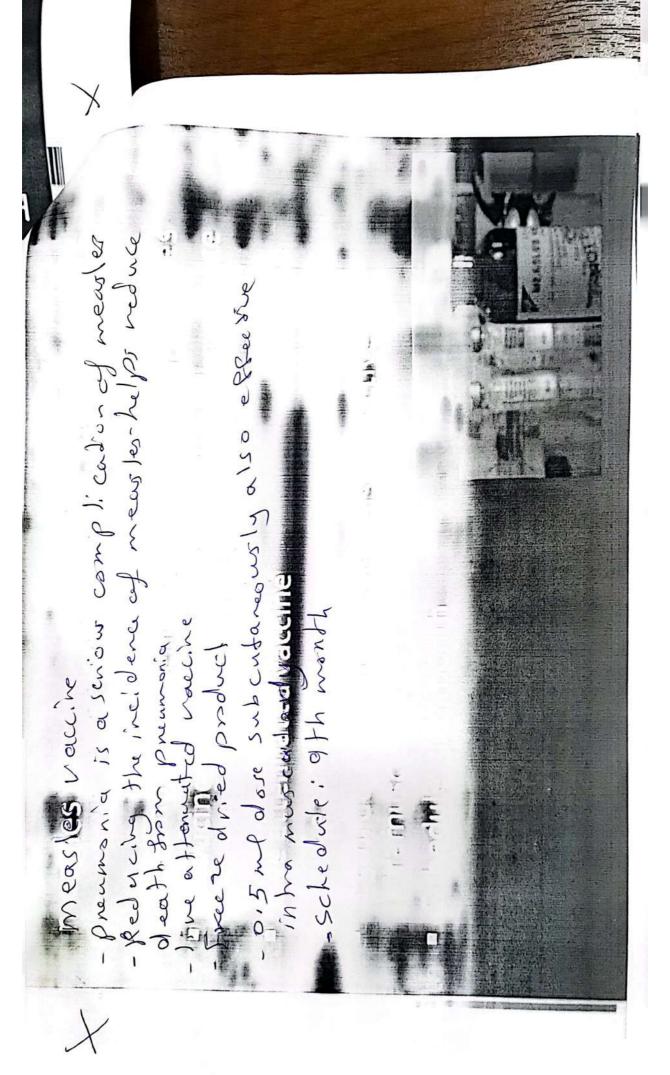
immune system strong.



poeple with ARIS should cough or sneeze quay from sthers, hold a cloth to the nose and negliber to catches the of aplets when coughing on educating parents to avoid centract or much as control the spread of verypitaby backer's by 3 mmin; Zalis, also increases canho by reduce The reservoir of in fection in the connection of and in the form of the text of their immited Lave DK15. SNE Zing,



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HIB vaccine

- Haemophilus influenza B most important cause of death due to meningitis and pneumonia in developing countries
- Available for more than a decade
- Expensive
- Included in the IAP immunization schedule
- combined preparation with DPT and poliomyelitis
- Three or four doses are given dependin on type of vaccine
- Schedule : 6 ,10, 14 weeks booster dose 12-18 months

Vaccine is not offered to children more than 24 months

THE ROLL OF THE PASSES.

children under zyeor and immunicantra mised do rat respond - PP 123 Sacchaviole non Conjugated and you of 23 Severyly select groupsingsilled of scuse, chronic Heard difeare □ Administration — Intramuseular Adminis badia - intrasportanta DM, organitamplants, etc Pheumococca Vacamo uell be this voccine Dosc - 0.5 m in the deltoid Pcv-7: pneumococcal conjugate vaccine

New vaccine suitable for infants and toddlers

It is included in the IAP immunization schedule

Induces a t- cell dependent immune response

meningitis moderately effective against otitis Prevents pneumococcal pneumonia and medla dose-1)6,10,14 weeks ,booster after 12 months

2)2, 4,6 months and booster after 12 months

administration-intramuscular

	No sever c)usb	No Georgh Shing		No pre EumaniA	ADVICE ROY HOME CARE	EXPLAIN DANGER	SIGNS
ELLO ZMONTHS	Sever	Few 7 Careed hally		SEVER PNEUM 9~JA	REFER URGENTL	KEEP WARM	GIVE FIRST DOSE OF ANTIBIOTIC
MANAGEMENT OF ARI CHILDRENGELLOZMONTAS	Stopped feeding	stridor in calm child wheere	femp.	VERY Severice DISEASE	REFER URGENTLY	KEEP WARM	GIVE FIRST DOSE OF ANTIBIOTIC
	1 1	516NS		classi By As.1.	TREATMENT		

MANAGEMENT OF ARI

	NOT MILE TO DHINK CONVILSTONS ARNOTHISTONS NUMBER OR STRIPP OR NARE STRIPP OR STRIPP OR NARE STR	THE STATE OF THE S	PANT MILLIAN III. CONITY ON THE STATE OF THE	NO PAST INTERNATION POSTIBLIST C
CLASSIFY AS	VERY SEVERE DISEASE	SEVERE PNEUMONIA	PNEUMONIA	NO PNEUMONIA/ COLD & COUGH
TREATMENT	REFER URGENTLY GIVE FIRST DOSE OF ANTIBIOTIC TREAT FEVER, IF PRESENT TREAT WHEEZE, IF	REFER URGENTLY GIVE FIRST DOSE OF ANTIBOTIC TREAT FEVER TREAT WHEEZE	ADVICE FOR HOME CARE GIVE ANTIBIOTIC TREAT FEVER TREAT WHEEZE	ASSESS AND TREAT EAR PROBLEM/ SORE THROAT TREAT FEVER TREAT WHEEZE

Preven 2 son of ARI

Health education.

Keep child warm.

Immunization.

Nutrition.

Prevent nearby smoking

· Personal hygiene.

Visit doctor.



Acute respiratory infection(ARI)

- 1. Symptoms of Acute Respiratory Infection
- 2. Causes of Acute Respiratory Infection
- 3. Diagnosis of Acute Respiratory Infection
- 4. Who is at Risk for Acute Respiratory Infection?
- 5. Potential Complications of Acute Respiratory Infection?
- 6. Prevention of Acute Respiratory Infection
- 7. Related resources

Acute respiratory infection is a serious infection that prevents normal breathing function. It usually begins as a viral infection in the nose, trachea (windpipe), or lungs. If the infection is not treated, it can spread to the entire respiratory system. Acute respiratory infection prevents the body from getting oxygen and can result in death. Person suffering from this condition needs medical assistance immediately. Also, acute respiratory infections are infectious, which means they can spread from one person to another. The disease is quite widespread. It is particularly dangerous for children, older adults, and people with immune system disorders. According to the World Health Organization (WHO), acute respiratory infections kill an estimated 2.6 million children annually every year worldwide.

Symptoms of Acute Respiratory Infection

The early symptoms of acute respiratory infection usually appear in the nose and upper lungs. Other symptoms include:

- · congestion, either in the nasal sinuses or lungs
- runny nose
- cough
- sore throat
- body aches
- fatigue
 If the disease advances, there may be high fever and chills. Other serious symptoms are
- difficulty breathing
- dizziness
- low blood oxygen level
- · loss of consciousness

Potential Complications of Acute Respiratory Infection?

Complications of acute respiratory infection are extremely serious and can result in permanent damage and even death. They include:

- respiratory arrest
- respiratory failure
- · congestive heart failure

Prevention of Acute Respiratory Infection

Most causes of an acute respiratory infection are not treatable. Therefore, prevention is the best method to ward off harmful respiratory infections. Practice good hygiene by doing the following:

- Wash hands frequently, especially after having been in a public place.
- Always sneeze into one's arm of the shirt or in a tissue. Although this
 may not ease one's symptoms, it will prevent the spreading of infectious
 diseases.
- Avoid touching one's face, especially eyes and mouth, to prevent introducing germs into one's system.

Acute Upper Respiratory Infection

upper respiratory tract includes the nose, throat, pharynx, larynx, and bronchi.the <u>common cold</u> is the most well-known URI. Other types of URIs include sinusitis, <u>pharyngitis</u>, epiglottitis, and tracheobronchitis. <u>Influenza</u>, on the other hand, isn't an URI because it's a systemic illness.

What causes acute upper respiratory infection?

Both viruses and bacteria can cause acute URIs:

Bronchitis

Inflammation of the bronchial tubes is <u>bronchitis</u>. The right and left bronchial tubes branch off from the trachea and go to the right and left lungs..

What are the symptoms of acute upper respiratory infection?

A Symptoms are caused by inflammation of the mucous membranes in the upper respiratory tract. Other symptoms include:

- fever
- fatigue
- headache
- · pain during swallowing
- wheezing

How is acute upper respiratory infection diagnosed?

Tests that may be used to diagnose URIs are:

- Throat swab.
- · Lateral neck X-rays.
- · Chest X-ray. CT scan.

Acute respiratory infection (ARI) A young baby under two months old

Category	Signs	Treatment
89		,
Very severe disease	-stop eating good food	-Immediately transfer the pt to the hospital
	-Convulsions	-Keep the child warm
	-Drowsiness with difficulty waking	-Give the first dose of the antibiotic
	-Wheezing in breath	e e
is a second of the second of t	-Low or high body temperature	. E
*	e v	8 8

Category	Signs	Treatment
Severe pneumonia	-Severe chest suppression	-Immediately transfer the pt to the hospital
	-Fast breathing 60/ min or more	-Keep the child warm -Give the first dose of the antibiotic
·		-If pt transfer is not possible give antibiotic & observation

Category	Signs	Treatment
Cough or cold no pneumonia	-There is no severe chest suppression -Breathing is slow less than 60/min	Mothers advice to provide the following home care: -Consider heating the baby -Increased breastfeeding -Clean the nose if the food is difficult Quickly return to the hospital as: -Breathing become fast -Breathing become difficult - Difficulty eating
* ***		-The infants disease has increase
5		, «

Child from two months to five years

Category	Signs	Treatment
Very severe disease	-He can't drink	-Immediately transfer to the hospital
	-Drowsiness	
		- Give the first dose of
	-Wheezing in a quiet child	the antibiotic
		-Treat of fever in any
	-Lack of nutrition	
		-Treat wheezing in any
•		-I the risk of malaria,

Category	Signs	Treatment
Severe pneumonia	-Chest suppression	-Immediately transfer to the hospital
	-Treat frequent	to the hospital
# **	wheezing in any	- Give the first dose of the antibiotic
		-Treat of fever in any
,		-Treat wheezing in any
		-If pt transfer is not possible give antibiotic & observation

Category	Signs	Treatment
Pneumonia	-There is no chest suppression -Breathing is fast(50/min or more if age 2months to 1 year. 40/min if age 1 year to 5 year)	- Mothers advice to provide the following home care -Give antibiotic -Treat of fever in any -Treat wheezing in any -Return the child to assess his condition, or before that if his condition worsened

Category	Signs	Treatment
There is no pneumonia	-There is no chest	-If the cough lasts
but cough& cold	suppression	more than a month
	-There is no quick	,going to hospital to
3 .	breathing(less50/min if	assess the condition
1	age 2months to 1 year.	-Assess &treat ear &
	Less 40/min if age	throat problems if any
3	1 year to 5 year	-Assess &treat other
€	±	problems
		- Treat of fever in any
		-Treat wheezing in any

Reassess in two days for a child who gives an antibiotic

Signs	Bad situation	No change in	The situation
	-Unable to drink	status	improved
4 (g)	-There is		-Breathing
	suppression in		slower
	the chest	.8	-Fever is less
	-Has other	£2 14	Improved eating
	dangerous signs	•	
Treatment	-Immediately	The antibiotic	Complete the
	transfer to the	changed or	antibiotic for 5
	hospital	referred to	day
		hospital	

	_ر	سغي	يــع الد	الرض	
,					
()-	ىم	ـن اك	هرين م	ون شــ	(د

- توقف عن التناول الجيد للطعام .
 - الاختلاجات.
- ساس غير طبيعــى او صعوبة في
 يقاظ.
 - يم مرير في الطفل الهاديء .
 - هُ^{اک}اکازیز او^ج
- الحرارة أو انخفاض حرارة الجسم.

مُرضٌ شديد جداً

- ◄ حرّل قوراً إلى الستشفى .
 - ◄ احفظ الطفل دافثاً.
- ◄ أعط الجرعة الأولى من المضاد الحيوى.



العلامات:

التصنيف:

العلامات:

التصنيف:

المعالجة:

او .

انقماع شدید للصدر :

التنفس سريع .
 (٦٠ / الدقيقة أو أكثر)

ِ الدِّيِّابِ رِنُـوي شــديد `

- · حول فوراً إلى الستشفى .
 - المعالجة: ١١ أ ادف، الرضيع الصغير.
- إ ا م تعطى الجُرعة الأولى من المضاد الحيوي
- (إذا كان التحويل إلى الستشفى غير ممكن، يعالج بالمضاد الحيوي ويتابع عن قرب)

لايوجد انقماع شديد للصدر و

التنفس غير سريع
 أقل من ٦٠/الدقيقة

لايوجد التهاب رئوي بل سعال أو زكام

- ◄ انصح الأم بتوفير الرعاية النزلية الأنية :
 - ◄ مراعاة تدفئة الرضيع الصغير.
 - ◄ الإكثار من الإرضاع من الثدي .
- ◄ نظف الانف إذا كان يعوق الإطعام.
 - · العودة سريعاً إلى المستشفى إذا:
 - ◄ اصبح التنفس صعيا.
 - أصبح التنفس سريعاً.
 أصبح الإطعام مشكلة.
 - ◄ ازداد مرض الرضيع.

الطفل مـن (سـن شـهرين حتى ٥سـنوات) العلامات! العلامات! المين غير قادر على الشرب. المين غير طبيعي او صعوبة في المين المين

 لايوجد انقماع الصدر و لايوجد تنفس سريع (اقل من ٥٠ رالدقيقة إذا كان سن الطفل من شهرين ـ ١٢ شهرا أقل من ٤٠ / الدقيقة إذا كان الطفل من ١٢ شهرا حتى و سنوات) 	 لا يوجد انقماع الصدر للداخل و التنفس سريع (• • / الدقيقة أو اكثر إذا كان سن الطفل من شهرين حتى ١٢ شهراً • ٤ / الدقيقة أو اكثر إذا كان سن الطفل من ١٢ شهراً حتى ٥ سنوات). 	 انقماع الصدر وإذا كان هناك أزيز متكرر مباشرة إلى معالجة الأزيز 	العلامات :
لايوجد النهاب رثو ي بل سعال أو نزلة برد	التهابرنوي	التهاب رشوي شديد	التصنيف:
 ▶ إذا استمر يسعل اكثر من ٢٠ يوماً يحول ▶ قيم وعالج مشاكل الأذن أو التهاب الحلق أن وجدت ▶ قيم وعالج المشاكل الأخرى ▶ تنصب الأم بتوفير الرعاية المنزلية ▶ عالج الحمى أن وجدت ▶ عالج "لذيز إن وجد 	 انصح الأم بترفير الرعاية المنزلية . اعط مضاداً خيوياً . عالج الحمى ان وجدت . عالج الازيز ، إن وجد . انصح الأم بالعودة بالطفل خلال يومين . لإعادة تقييم حالته أو قبل ذلك إذا ساءت حالة الطفل . 	 ◄ حول فوراً إلى المستشفى. ◄ اعط الجرعة الأولى من المضاد الحيوي. ◄ عالج الحمى، إن وجدت. ◄ عالج الأزيز، إن وجد. ◄ إذا كان التحويل إلى المستشفى غير ممكن يعالج بالمضاد الحيوي ويتابع عن قرب). 	المعالجة:

تحسن الحالـــة		ازدياد الحالة سوءأ	
• التنفس ابطأ .		• غير قادر على الشرب .	العلامات:
● الحمىٰ اقل .		 يوجد انقماع للصدر . 	
• تحسن في تناول الطعام.	لا تنبي <u></u> ر	 لدیه علامات خطرة اخری. 	
 ◄ اكمل المضاد الحيوي لدة ٥ 	 پنير المضاد الحيوي أو يحول 	 ◄ يحول فوراً إلى المستشفى 	المعالحة:

Dr. Shatha A. Hasso

Communicable diseases and public Health

Introduction:

Communicable diseases pose a major threat to public health and are of significant concern to community/ public health nurses. A communicable disease is one that can be transmitted from one person to another, is caused by an agent that is infectious, and is transmitted from a source, or reservoir, to a susceptible host. The majority of communicable diseases that the public health nurse will encounter and investigate are considered infectious;

CDC mean communicable disease control.

Epidemics of communicable diseases: have been responsible for annihilation ابادة of entire population. It continue to be a major concern of health care providers. Emergence of new pathogens, re emergence of old pathogens & appearance of drug-resistance pathogens creating challenges for infectious disease control world wide.

Common World Problems

Infectious DiseasesMaternal & Child Health Problems
Malnutrition
Malaria
AIDS
STDS
Measles
Т.В

Global attempt to reduce Communicable Diseases

- 1. Global eradication campaigns.
- 2. International public health priorities.
- 3. Eradication of some C.D.

- 4. Elimination of some C.D.
- 5. Wide spread immunization –vaccination- with coverage of 80% of children.
- 6.Clean water supply &good sanitation.
- 7. Oral Re hydration Solution.
- 8. Provision of health care services.
- 9. Health education & disease prevention program

Application of community based Health intervention

- * Interrupting or disease transmission prevention.
- * Assessment of the risk factors that impede health & increase the likelihood of transmission.

Communicable Diseases & Healthy People 2020

- 1. Reduce AIDS among adolescent and adults.
- 2. Reduce new cases of Hepatitis C.
- 3. Achieve an effective vaccination coverage with DPT& MMR.
- 4. Increase percentage of adult vaccinated with influenza.

Transmission of Communicable Diseases

Communicable diseases transmitted as result of interaction between three main factors

ENVIRONMENT

HOST -----AGENTS

Epidemiological Triad

Transmission of C.D

1. Vertical transmission:

From parent to offspring through placenta – milk – vaginal contact.

2. Horizontal transmission:

*Direct *Indirect

Direct contact between infected Spread of infection through

Host or reservoir to portal of entry *vehicles—tissue –water-food

-blood

In human host e.g scabies, measles * vector

And STDS. *Animals.

Direct transmission: occurs by immediate transfer of infectious agents from a reservoir to a new susceptible host. It requires direct contact with the source, through touching, biting, kissing, or sexual intercourse—that is, contact with oral secretions, blood, or other potentially infectious fluid, such as the drainage from a skin lesion. Coughing or sneezing secretions into the face of a susceptible individual can directly transmit respiratory infections, such as measles or pertussis. Close proximity is required, like sharing the space in a car, to transmit an organism from one person to another.

Indirect Transmission: occurs when the infectious agent is transported within contaminated inanimate materials such as air, water, or food. It is also commonly referred to as *vehicle-borne transmission*. Helping to prevent food and water contamination by infectious agents.

Food- and Water-Related Illness: can be caused by viruses, toxins, bacteria, or parasites, such as *Salmonella Shigella, Escherichia coli*, and *Camplyobacter*; the protozoan agent *Giardia*; *Staphylococcus*, and the viral agent hepatitis A. These microorganisms cause intestinal illness, and sometimes even death. The contamination can occur at the source (e.g., contamination by animal into the food or water chain) or through unsanitary food handling or practices, which are referred to as the *fecal*—

oral route. Improper food storage can also create an environment for microorganisms to grow. Ingestion of the pathogenic organism sets in motion the events of a food- or water-related illness. Most commonly, exposure to contaminated food or water results in symptoms related to gastrointestinal function, including diarrhea, nausea, vomiting, stomach cramps, and bloating. Fever may accompany these infections as well. Onset of symptoms may occur within a few hours after exposure or not until days or even weeks later, depending on the microorganism. This time interval between exposure and onset of symptoms is called the **incubation period**.

Microorganism contamination of food resulting in human illness occurs as a result of either infection or intoxication. Infection is related to a pathogen that occurs through ingestion of food contaminated with adequate doses of *Salmonella*, *Shigella*, *E. coli*, or other pathogens. The cycle begins when the infectious agent multiplies and grows in the food medium. Infection is usually accompanied by an immune response, such as the production of antibodies with or without clinical manifestation. By contrast, intoxication is caused by the production of toxins as a byproduct of the normal bacterial life cycle.

Correct methods for preserving the safety & cleanness of food Before handling food:

•• Wash hands and all food preparation surfaces and utensils thoroughly with soap and water.

When preparing food:

- Wash foods that are to be eaten raw and uncooked thoroughly in clean water. This includes foods that are to be peeled that grow on the ground or come in contact with soil.
- • Cook all meat products thoroughly.

• Do not allow cooked meats to come in contact with dishes, utensils, or containers used when the foods were raw and uncooked.

When storing leftover foods:

• Cool cooked foods quickly; store under refrigeration in clean, covered containers.

When reheating leftover foods:

• Heat foods thoroughly. Bacteria contaminating food grow and multiply in a temperature range between 39°F and 140°F.

Vector Transmission

When transmission occurs through a vector (a nonhuman carrier such as an animal or insect), it is known as vector-borne transmission. Rabies and Hantavirus are examples of illnesses passed from animals. Insects such as mosquitoes, fleas, and ticks are responsible for transmission of malaria, plague, and Lyme disease. Transmission can be through a bite of the insect or animal or exposure to the infected animal's body fluids, such as the urine from the Hantavirus-infected rodent.

Control strategies directed toward vector-borne diseases typically involve community education and environmental measures to hinder the vector from reaching the host.

Control strategies may include the following:

- Reduce the population of insects.
- •• Eradicate rodents that carry diseases, such as rats.
- •• Use of mechanical or chemical barriers to protect from exposure to vectors, such as mosquitoes or ticks—for example, sprays or mesh bed nets.
- Public education about preventive and protective measures, including avoiding vector habitats, and how to respond when exposed to a vector to prevent disease from developing.

Airborne Transmission

Airborne transmission occurs through droplet nuclei—the small residues that result from evaporation of fluid from droplets emitted by an infected host. Sneezing and coughing are common examples of airborne transmission. Because of the small size and weight of droplet nuclei, they can remain suspended in the air for long periods before they are inhaled into the respiratory system of a host. Small particles of dust from soil containing fungus spores may cling to clothing, bedding, or floors. The spores may become separated from dry soil by the wind and then be inhaled by the host

The **local health department/agency** is the initial point of notification of a communicable disease investigation. In most states, reporting known or suspected cases of a reportable disease is generally considered to be an obligation of:

- _ Physicians, dentists, nurses, and other health professionals
- _ Medical examiners
- _ Administrators of hospitals, clinics, nursing homes, schools, and nurseries

Some states also require or request reporting from

- _ Laboratory directors
- _ Any individual who knows of or suspects the existence of a reportable disease

Immunization

Control of acute communicable diseases through immunization has been a common practice since the 19th century in the United States. Immunization is the process of introducing a form of a disease-causing organism into a person's system to promote the development of antibodies that will resist that disease. This process stimulates the individual's immune system to create antibodies to the particular infectious disease.

for adolescent immunization rates for four recommended vaccines were as follows: tetanus— diphtheria—acellular pertussis (Tdap) 68.7%; meningococcal conjugate vaccine 62.7%; hepatitis B vaccine series 91.6%; and female teens who had completed the three-dose series of HPV vaccine 69.6%.

Perceived barriers that may impact adolescent immunization levels may include lack of parental knowledge, inadequate access to medical care, and inadequate or no insurance coverage. The community/public health nurse can educate parents to the availability of federal programs that pay for vaccines for children under the age of 19.

Adult vaccines include Tdap/Td, pneumococcal, zostavax (shingles prevention), influenza, hepatitis A and B, and for some young adults catch up on MMR.

For many years, the emphasis has been on the adult receiving pneumococcal and influenza immunizations, but with recent evidence of pertussis spread from adults to vulnerable infants and young children, Tdap has been given greater emphasis. As of 2010, Tdap is now recommended for adults 19 to 64 years of age regardless of the interval since the last tetanus or diphtheria containing vaccine.

On the personal level, health care providers, public health nurses, and school nurses are in positions to review, educate, and provide opportunities for a child to obtain immunizations. Some children do not enter into the system for immunization review until entry into school, where they may or may not have been immunized.

Immunity: Ability of the body to protect its self from infection.

Acquired Immunity :active exposure to infectious agent

Passive	Active

Donated immunoglobulin by Transfusion

Infection or vaccination body produce

immunoglobulin

Control, Elimination & Eradication of Communicable Diseases:

Endemic: constant presence of a disease within a geographical area e.g pertusis in USA. Typhoid fever in Iraq

Epidemic: Occurrence of a disease in the community in excess of normal expected range e.g ADIS in Iraq.

Pandemic: Epidemic occurs world wide e.g HIV, AIDS.

Control : Reduce of incidence or prevalence of a given disease to locally acceptable level with a deliberate effort.

Elimination: Control of C.D within a specified geographical area e.g single country.

Eradication: Reducing the world wide incidence of a disease to zero with deliberate efforts –termination.

Levels of Prevention of Communicable Diseases

Primary Prevention: Reduce incidence of a disease by certain measures like Health education, vaccination.

Secondary prevention: Early diagnosis and early treatment Like measles.

Tertiary Prevention: rehabilitation of patient complaining from disability

Like patient with AIDS.

Vaccination

EPI: Is global attempt to control morbidity & mortality for many vaccine preventable diseases, it is adopted by W H O and UNICEF and other international health organization with a goal of achievement of 80% immunization coverage.

Vaccine: Substance contain either live attenuated micro organism or killed or toxin of micro organism.

Live attenuated		killed	Toxoid
Viral	bacterial	Viral Bacterial	
Measles	BCG	influenza typhoid	diphtheria
Mumps		rabies cholera	hepatitis B
Rubella		hepatitis A	
Polio			

Factors Affecting Vaccine Efficacy

- 1. vaccine storage, transport and handling.
- 2. vaccine administration and routes.
- 3. vaccine spacing
- 4.vaccine hyper sensitivity & contra indication.

The Nursing process of communicable diseases:

Assessment

The first step of the nursing process, assessment, aligns itself with case-identification and case-finding in communicable disease control. The community health nurse must use all assessment skills and tools available during contact with clients, so as not to overlook the possibility of a communicable disease. Assessment must be comprehensive, producing **physical, social, and environmental data**. There is no place for assumption. The nurse record the:

baby's temperature,

look at her for a rash,

compare present weight with last weight,

ask about bowel habits or vomiting,

inquire about illnesses in the family,

check on breast-feeding technique

watch while the mother demonstrated formula preparation,

inspect the family's water source,

ask about other foods the baby is eating, and so forth?

Broader inquiry into such a simple statement from the mother in this example may lead to the discovery of a life-threatening, undiagnosed communicable disease.

Assessment in the broader sense with respect to communicable disease control relates to the **surveillance** for disease. As mentioned previously, communicable diseases are reportable and the public health nurse may be the first to notice a trend in a rise in a particular disease rate.

Planning

The planning step in the nursing process involves different activities, depending on whether the intervention is for an individual, family, group, or entire community.

At the individual level, the nurse may assist a client or family to obtain an immunization or definitive treatment.

Or, the nurse may assist the client through education about self-care related to disease symptoms that provide relief and in reducing the chance of transmitting the disease to others in the family or community. With groups and communities, planning interventions includes the collaboration with community members and/or organizations.

there are location, staff, and supplies to prepare, which may include writing grants, establishing contracts, and training before implementation can begin.

Implementation

During the implementation step, the nurse actually takes the action that was identified as necessary during assessment and planning. In the implementation step, the nurse may actually deliver the service or may supervise other staff or volunteers, as with a large immunization event. Implementing plans with small groups or families may involve arranging for transportation, so that several people can get to the immunization site

or can be seen by a primary care provider. It may include gathering clinical specimens for laboratory analysis from a family recovering from a *Salmonella* infection.

Education on primary prevention to prevent future infections is an essential part of the implementation phase. Agency record keeping, state-required contact investigation, and reports to the next level of government oversight of a communicable disease are essential in this phase.

Evaluation

Evaluation is an essential step in the nursing process with all services community health nurses provide. When dealing with communicable diseases, it is most important to determine whether actions have achieved the established goals. Have the outcomes been accomplished?

Are all family members immunized?

Are all family members free of the disease?

Do families know how to prevent the diseases recurring?

What needs to be done now to keep the community safe from communicable diseases?

Are there funding issues, programs nearing completion that need support, or growth of services needed that can be addressed before a critical need occurs?

Lecture

Management of the patient with diarrhea



Management of the patient with diarrhea

Objective:

Define, type diarrhea, treatment, nursing role-

- -Type diarrhea according duration &causes
- -Treatment according type diarrhea
- -Assessment patient with dehydration

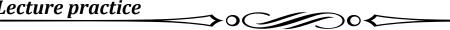
Define: diarrhea if you have loose stools three or more times in one day.

Type diarrhea according duration

- 1- Acute diarrhea from 1day -14 day (2 week)
- 2- Chronic diarrhea 1day -1 month

Type diarrhea according causes:

- 1-Becterial infections, treat with antibiotics
- 2- Parasitic, treat with ant parasitic drugs or antifungal
- 3- Blood present, bloody stool treat according causes.



A

Assess your patient for dehydration

В

 \mathbf{C}

1. Look at:	Well ,alert	Restless ,irritable	Lethargic or
condition			unconscious
Eyes	Normal	Sunken	Very sunken &
			dry
Tears	Present	Absent	Absent
Mouth &tong	Moist	Dry	Very dry
Thirst	Drinks normally,	Thirsty ,drinks	Drinks poorly or
	not thirsty	eagerly	not able to drink
2. Feel: skin pinch	Goes back quickly	Goes back slowly	Goes back very
			slowly
3. Decide	The pt has no	If the pt has two	If the pt has two or
	signs of	or more sign there	more signs there is
	dehydration	some dehydration	sever dehydration
4. Treat	Use treatment	Weigh the pt ,if	Weigh the pt &use
	plan A	possible, &use	treatment plan C
		treatment plan B	URGENTLY

Treat plan A (mild) treat diarrhea at home.

Explain the three rules for treating diarrhea at home.

- 1- Give the child more fluids than usual to prevent dehydration.
- 2- Give the child plenty of food to prevent malnutrition.
- continue to breast-feed frequently.3
- -if the child is not breast- feed, give the usual milk.



Treatment plan B (moderate diarrhea). To treat dehydration approximate amount of ORS solution to give in the first 4 hours and re-assessment during 24 hours

Contents of ORS:

- 1- Glucose 20g
- 2- Sodium Chloride 3.5
- 3- Trisodium Citrate 2.9
- 4- Potassium 1.5

Treatment plan C to treat severe dehydration quickly: Referral to Hospitalization

- Start IV fluids immediately, if the pt can drink, give ORS by mouth while the drip is set up. give shoot 20 ml/kg Normal Saline or Ringers lactate solution for one hours.
- Give Maintenance Fluids Glucose Saline for 24 hours

TABLE 18–7 Calculation of Intravenous Fluid Needs

STEP	CALCULATIO	ON
Calculate the mainte- nance fluid needs of the child, using guide- lines at right.	Usual Weigh Up to 10 kg 11-20 kg	t Maintenance Amount 100 mL/kg/24 hr 1000 mL + (50 mL/kg for weight above 10 kg)/24 hr
	>20 kg	1500 mL + (20 mL/kg for weight above 20 kg)/24 hr
Calculate replacement fluid for that lost, using formula at right to obtain mL/kg/24 hr required.		of body weight loss × weight = mL/kg/24 hr
Calculate continued losses; add them to total of maintenance and replacement needs.		

- Reassess the patient every 1-2 hours.
- Also give ORS (about 5ml/kg/hour) as soon as the pt can drink.

Acute respiratory infection(ARI)

- 1. Symptoms of Acute Respiratory Infection
- 2. Causes of Acute Respiratory Infection
- 3. Diagnosis of Acute Respiratory Infection
- 4. Who is at Risk for Acute Respiratory Infection?
- 5. Potential Complications of Acute Respiratory Infection?
- 6. Prevention of Acute Respiratory Infection
- 7. Related resources

Acute respiratory infection is a serious infection that prevents normal breathing function. It usually begins as a viral infection in the nose, trachea (windpipe), or lungs. If the infection is not treated, it can spread to the entire respiratory system. Acute respiratory infection prevents the body from getting oxygen and can result in death. Person suffering from this condition needs medical assistance immediately. Also, acute respiratory infections are infectious, which means they can spread from one person to another. The disease is quite widespread. It is particularly dangerous for children, older adults, and people with immune system disorders. According to the World Health Organization (WHO), acute respiratory infections kill an estimated 2.6 million children annually every year worldwide.

Symptoms of Acute Respiratory Infection

The early symptoms of acute respiratory infection usually appear in the nose and upper lungs. Other symptoms include:

- congestion, either in the nasal sinuses or lungs
- runny nose
- cough
- sore throat
- body aches
- fatigue

If the disease advances, there may be high fever and chills. Other serious symptoms are

- difficulty breathing
- dizziness
- low blood oxygen level
- loss of consciousness

.

Potential Complications of Acute Respiratory Infection?

Complications of acute respiratory infection are extremely serious and can result in permanent damage and even death. They include:

- respiratory arrest
- respiratory failure
- congestive heart failure

Prevention of Acute Respiratory Infection

Most causes of an acute respiratory infection are not treatable. Therefore, prevention is the best method to ward off harmful respiratory infections. Practice good hygiene by doing the following:

- Wash hands frequently, especially after having been in a public place.
- Always sneeze into one's arm of the shirt or in a tissue. Although this
 may not ease one's symptoms, it will prevent the spreading of infectious
 diseases.
- Avoid touching one's face, especially eyes and mouth, to prevent introducing germs into one's system.

Acute Upper Respiratory Infection

upper respiratory tract includes the nose, throat, pharynx, larynx, and bronchi.the <u>common cold</u> is the most well-known URI. Other types of URIs include sinusitis, <u>pharyngitis</u>, epiglottitis, and tracheobronchitis. <u>Influenza</u>, on the other hand, isn't an URI because it's a systemic illness.

What causes acute upper respiratory infection?

Both viruses and bacteria can cause acute URIs:

Bronchitis

Inflammation of the bronchial tubes is <u>bronchitis</u>. The right and left bronchial tubes branch off from the trachea and go to the right and left lungs..

What are the symptoms of acute upper respiratory infection?

A Symptoms are caused by inflammation of the mucous membranes in the upper respiratory tract. Other symptoms include:

- fever
- fatigue
- headache
- pain during swallowing
- wheezing

How is acute upper respiratory infection diagnosed?

Tests that may be used to diagnose URIs are:

- Throat swab.
- Lateral <u>neck X-rays</u>.
- Chest X-ray. CT scan.

Acute respiratory infection (ARI) A young baby under two months old

Category	Signs	Treatment
Very severe disease	-stop eating good food	-Immediately transfer the pt to the hospital
	-Convulsions	-Keep the child warm
	-Drowsiness with difficulty waking	-Give the first dose of the antibiotic
	-Wheezing in breath	
	-Low or high body temperature	

Category	Signs	Treatment
Severe pneumonia	-Severe chest suppression -Fast breathing 60/ min or more	-Immediately transfer the pt to the hospital -Keep the child warm -Give the first dose of the antibiotic
		-If pt transfer is not possible give antibiotic & observation

Category	Signs	Treatment
Cough or cold no pneumonia	-There is no severe chest suppression -Breathing is slow less than 60/min	Mothers advice to provide the following home care: -Consider heating the baby -Increased breastfeeding -Clean the nose if the food is difficult Quickly return to the hospital as: -Breathing become fast -Breathing become difficult - Difficulty eating -The infants disease has increase

Child from two months to five years

Category	Signs	Treatment
Very severe disease	-He can't drink	-Immediately transfer
		to the hospital
	-Drowsiness	
		- Give the first dose of
	-Wheezing in a quiet	the antibiotic
	child	
		-Treat of fever in any
	-Lack of nutrition	
		-Treat wheezing in any
		-I the risk of malaria,
		give an antimalaria

Category	Signs	Treatment
Severe pneumonia	-Chest suppression	-Immediately transfer
		to the hospital
	-Treat frequent	_
	wheezing in any	- Give the first dose of
		the antibiotic
		-Treat of fever in any
		-Treat wheezing in any
		-If pt transfer is not
		possible give antibiotic
		& observation

Category	Signs	Treatment
Pneumonia	-There is no chest	- Mothers advice to
	suppression	provide the following
		home care
	-Breathing is	
	fast(50/min or more if	-Give antibiotic
	age 2months to 1 year.	
		-Treat of fever in any
	40/min if age 1 year to	
	5 year)	-Treat wheezing in any
		D (1 1211)
		-Return the child to
		assess his condition ,or
		before that if his
		condition worsened

Category	Signs	Treatment
There is no pneumonia	-There is no chest	-If the cough lasts
but cough& cold	suppression	more than a month
	-There is no quick	,going to hospital to
	breathing(less50/min if	assess the condition
	age 2months to1year.	-Assess &treat ear &
	Less 40/min if age	throat problems if any
	1year to 5year	-Assess &treat other
		problems
		- Treat of fever in any
		-Treat wheezing in any

Reassess in two days for a child who gives an antibiotic

Signs	Bad situation -Unable to drink -There is suppression in the chest -Has other	No change in status	The situation improved -Breathing slower -Fever is less Improved eating
Treatment	-Immediately transfer to the hospital	The antibiotic changed or referred to hospital	Complete the antibiotic for 5 day

University of Mosul

College of Nursing

Department of Clinical Nursing Science

Community Health Nursing

Field Visits

Visit to School	
Clinical objectives	:

At the end of the visit the student will be able to:

- 1. Identify the healthy school environment.
- 2. Recognize the different health needs of pupils with the **Corresponding health services.**
- 3. Identify the source of parent /community involvement.
- ls.

4. Demonstrate the nursing	skills in providing care to pupi
Student's Name:	
Date of the Visit:	
Name of school:	
Name of Supervisor:	

Student Guideline for School Visit

1. Organizational Information:a. Total number of pupils:b. Number of pupils per class:c. Daily school time in hours:		
2.Physical School Environment:A. Building .B. Recreational space .C. Garden .	safe clean adequate present	unsafe not clean inadequate not present
 D. Classroom: a. Adequate light. b. Adequate ventilation. c. Suitable seats. d. Clean board. e. Board distance / 1.5-2 m. f. Intact widows and doors. g. Safe electrical source. h. Adequate heating and cooling syntax 	Yes	No
E. Toilet and Hand Washing Facila. Available .b. Enough number .c. Suitable location.d. Good hygiene .e. Presence of air empty machine		No
F. School Hygiene:a. Presence of waste containers.b. Classroom waste container.c. Presence of workers for cleaning.	Yes	No

 G. Drinking Water: a. Available. b. Safe source. c. Suitable location / position. e. Away from sewage system. f. Safe /clean water container. 	Yes	No
 H. Surrounding School Environma. a. Source of noise. b. Crowded street. c. Waste dump. e. Generator. f. Unsafe food source. 	ent: Yes	No
•	ntry.	
h. Firefighting devices .i. School pharmacy .		
 4. Nutritional Services: a. Presence of grocery. b. Proper location. c. Good hygiene. d. Safe / clean food. Type of food	Yes	No

5. Health Education :	Yes	No
a. Individual .		
b. Group.		
Items covered:		
Method used :		
Who conduct the session:		
6. Parents and Community Involvem	nent: Yes	No
 a. Health education programs for family and community. 		
7. Describe the Role of School Health	n Nurse:	
8. Self Evaluation :		
Was the visit beneficial?	Yes	No
Why?	103	110

Dr. Shatha A. Hasso

Introduction to trauma

Trauma is an external physical or chemical force that affect the body and exceeds it's resilience leading to injury

The injury is the adverse effect of a physical (or chemical) force upon a person Traumatology is the study of medical problems associated with physical and chemical injury.

THE SCALE OF THE PROBLEM.

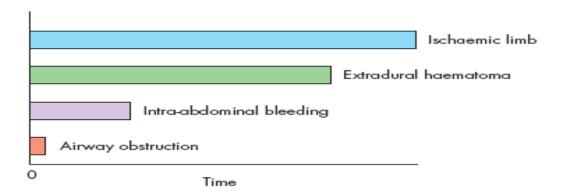
Trauma is recognised as a serious public health problem,

In fact, it is the leading cause of death and disability in the first four decades of life and is the third most common cause of death overall

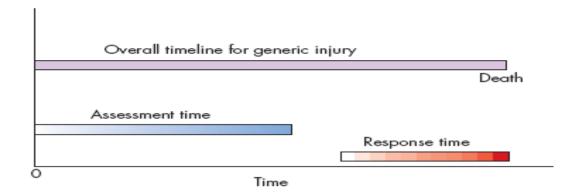
Fragility fractures are an increasing burden e.g. proximal femoral fractures, Look beyond the obvious in trauma management (non-accidental injuries)

THE IMPORTANCE OF TIME

.An identifying feature in the study of trauma is time At time zero the person/patient is at their normal baseline. There is then some interaction with an external force leading to injury.



The order ABCD, that is airway, breathing, circulation and disability (neurology), of the ATLS (Advanced Trauma Life Support) system is founded upon this time .dependence



Time pressure shapes our management of trauma

There is a finite time to assess

There is a finite time to respond

For success these must fit into the available time before irreversible damage or death

Penetrating:

Incisional

stab

Firearm

Blunt:

Direct

Indirect

Incisional and stab injuries

Require knowledge of anatomy, The abdominal contents extend high into the chest Even cardiac injuries are treatable if recognised early and treated quickly

Firearm injuries

Low-velocity bullets behave like knife injuries

High-velocity bullets cause cavitation

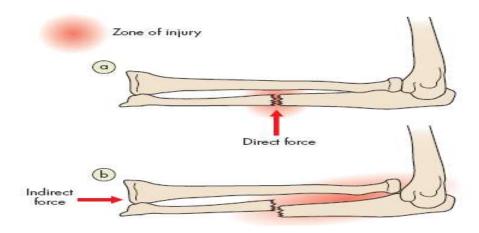
The temporary cavity is large and draws in foreign materials

The permanent cavity is smaller and gives no clue to the extent of damage



BLUNT INJURIES

DIRECT INDIRECT



Overt versus Covert injuries

Overt=clear

Covert=hidden

OVERT INJURIES: Obvious injuries and can be expected from the patient type, presentation and mechanism of injury. Example

Covert mechanisms & injuries

Patients usually tell the truth but may not if criminal activity is involved Fear of abuse may prevent vulnerable patients telling the truth Patients likely to have covert problems need careful checking even if their injury appears to have a simple mechanical cause

Mechanism	Obvious features	Covert injuries
Left-sided impact from road traffic accident	Lateral compression of the pelvis Left-sided pneumothorax	Splenic rupture Extradural haematoma
Flexion distraction (lap belt)	Chance fracture of the lumbar spine Dislocated knee Head injury	Duodenal rupture Popliteal artery disruption Cervical spine fracture
Electrocution	Burn on hand and collapse	Posterior dislocation of the shoulder
Dashboard impact	Knee wound	Posterior dislocation of the hip

trauma can be divided into two basic types Serious and life-threatening injury

.Significant trauma requiring treatment but not immediately life threatening:

The approach to the traumatized patient is very different from that of a patient with an undiagnosed medical condition as, in the latter, an extensive history, past medical history, physical examination, differential diagnosis and investigations ordered to confirm or refute this diagnosis are undertaken

In the trauma setting, it is often not possible to obtain such information immediately; hence, a standardized protocol of management is required The Advanced Trauma Life Support (ATLS) system was therefore created initially in the USA and rapidly taken up globally

The steps in the ATLS philosophy

- --Primary survey with simultaneous resuscitation identify and treat what can kill the patient
- --Secondary survey proceed to identify all other injuries
- --Definitive care develop a definitive management plan

Trauma therapy: These points illustrate the four main features of effective trauma care:

- **--Comprehensive therapy** extending from the initial field evaluation through the completion of rehabilitation
- --Multidisciplinary therapy involving the coordination of a dedicated team of

health professionals

- --Systematic therapy providing a framework for the timely and accurate identification of all injuries and comorbidities
- --Rapid therapy resulting in the proper prioritization of injuries and the interventions required to treat them
- --The most successful outcomes occur when a knowledgeable and skilled surgeon leads a cohesive team according to these principles. Each member of the team has specific responsibilities, and the collective effort results in the timely identification and treatment of life threats, an accurate and complete injury inventory, and an appropriately prioritized **plan of care**

Trauma Care

- I. **Prehospital care** of the trauma patient is provided by a wide range of emergency medical service (EMS) personnel with varying levels of EMS skills training (first responders, emergency medical technicians, and paramedics). These field professionals are responsible for performing the three major functions of :prehospital care
- -- Assessment of the injury at scene
- --Stabilization and monitoring of the injured patient
- --Safe and rapid transportation of critically ill patients to the appropriate trauma center

The **observations and interventions** of EMS personnel provide important data that guide the resuscitation of an injured patient. On the arrival of the patient to the trauma center, these data must be communicated to the trauma team in an efficient, organized manner

The MVIT system (mechanism, vital signs, injury inventory, treatment) of reporting is one frequently used method that takes between 30 to 45 seconds to complete

- **A. The mechanism of a trauma** provides important information about the pattern and severity of injuries sustained in the event
- --The pattern of injury can often be predicted based on the type of trauma. Frontend car collisions can cause direct contact between the driver's knees and the dashboard
- --Injury severity can be intuited from the mechanism of trauma through estimating the amount of energy transfer
- a motor vehicle at high speed therefore will likely sustain more severe injuries than an athlete hit by a baseball. Even though the differences between the squares

of the final and initial velocities of the vehicle and the baseball may be similar, their masses (and hence the energy transfer) are of different orders of magnitude

- **B. Vital signs**, including level of consciousness and voluntary movement, give insight into the clinical trajectory of the patient. EMS providers typically measure and report these values, often in less-than-ideal conditions. Deterioration of vital signs en route to the trauma center suggests the existence of life threats requiring immediate intervention. Improvement in vital signs en route may reflect transient compensatory responses by the patient. They may, however, only reflect human .error in obtaining data in difficult circumstances
- **C. The injury inventory** consists of the description of injuries as observed by the EMS personnel. Important prehospital observations include whether the patient was trapped in a vehicle, crushed under a heavy object. Such findings alert the trauma team to critical secondary injuries have a profound impact on outcome

D. Treatment

Prehospital treatment is aimed at stabilization of the injured patient and involves securing an airway, providing adequate ventilation, assessing and supporting circulation, and stabilizing the spine. EMS caregivers fulfill these goals through various therapies that include (but are not limited to) administration of oxygen and intravenous fluids, prevention of heat loss, and immobilization of the spine with a backboard and properly fitting hard cervical collar. Any patient suspected of having injuries to the cervical spine must be placed in a rigid collar. The effects of such prehospital interventions must be taken into account during the initial evaluation of a seemingly stable patient

Initial hospital care: usually takes place in the emergency department and has two :main components

A. The primary survey is a systematic, rapid evaluation of the injured patient : consisting of two main components

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The primary survey and resuscitation

The primary survey includes ABCDE

Airway with control of cervical spine

Breathing and ventilation

Circulation and hemorrhage control

Disability— rapid assessment of neurological function

Exposure with environmental control
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- --simple history is obtained (if possible). This history follows the acronym AMPLE (allergies, medications, past medical history, last oral intake, and events .(surrounding the injury
- --(ABCDE (airway, breathing, circulation, disability, exposure

Airway. Establishing a patent airway is the highest priority in the care of a trauma patient, because without one irreversible brain damage can occur within minutes. A patient who is able to respond verbally has a patent airway. A patient who cannot respond verbally must be assumed to have an obstructed airway until proved otherwise. Every trauma patient initially should have oxygen administered (via nasal cannula or bag valve facemask) and an oxygen saturation monitor (i.e., pulse oximeter) placed

a. Basic maneuvers. A frequent cause of airway loss in the trauma patient is mechanical obstruction caused by vomitus, phlegm, or other debris in the oropharynx

Simple suctioning can remove such blockage. In the semiconscious or unconscious patient

The jaw-thrust maneuver can successfully displace the tongue anteriorly from - the pharyngeal inlet which can occlude the airway

an oropharyngeal airway (or, in the absence of head trauma, a nasopharyngeal - airway) can mechanically displace the tongue anteriorly, securing patency. Both devices, however, can cause significant irritation of the upper aerodigestive tract with resultant vomiting, and, as a result, they should not be used on fully conscious patients

b. Tracheal intubation is indicated in any patient in whom concern for airway integrity exists (unconscious or semiconscious patients, patients with mechanical obstruction secondary to facial trauma or debris, combative and hypoxic patients). The preferred method of intubation is via the orotracheal route using (rapid :sequence induction

Table 2. Rapid Sequence Intubation 1. Place appropriate monitors (CR, BP, pulse oximeter) 2. Prepare medications and appropriate equipment 3. Preoxygenate with 100% oxygen 4. Premedicate with adjunctive agents if necessary a. Atropine b. Lidocaine 5. Administer appropriate sedative agent 6. Apply cricoid pressure (Sellick maneuver) 7. Administer neuromuscular blocking agent 8. Confirm endotracheal tube placement a. Pulse oximetry b. Carbon dioxide detector c. Chest X-ray

preintubation spontaneous 100% oxygenation:for 3-5 minute

- --During this time, a team member provides in-line cervical spine stabilization to . prevent unintentional manipulation as the hard cervical collar other team member provides anterior pressure on the cricoid cartilage to occlude the esophagus . This pressure prevents aspiration during intubation
- --Sedative or hypnotic medication is administered via a functioning intravenous .line with a valve
- --A paralytic agent is administered immediately after the sedative. Succinylcholine, 1.00–1.25 mg/kg i.v., is the paralytic of choice because, as a depolarizing muscle relaxant, it has a rapid onset (fasciculations within seconds) and a short half-life (recovery within 1–2 minutes). Contraindications:1. in the acute trauma setting are limited to patients with known pseudocholinesterase .deficiency 2.previous spinal injury

Adequacy of ventilation should be verified by bilateral auscultation in each axilla. A chest X-ray should be taken within the next few minutes and checked to ensure proper endotracheal tube position

- **c. Direct cricoid membrane airways**. In the majority of injured patients, orotracheal intubation provides a secure airway. In certain situations (unsuccessful orotracheal attempts, massive facial trauma), however, a more direct route is required. The two main means of providing such an airway are via .1.cricothyrotomy or 2.percutaneous transtracheal ventilation
- --Breathing. Once an airway is established, attention is directed at assessing the patient's breathing (i.e., the oxygenation and ventilation of the lungs). a patent airway does not ensure adequate breathing because the trachea can be ventilated without successfully ventilating the alveoli. Through the secured airway, 100% oxygen is administered. The axillae are auscultated to assess gas delivery to the peripheral lung. Any abnormal sounds suggest potentially life-threatening conditions. The chest wall motion is observed. The position of the trachea is noted. The use of accessory muscles of respiration is sought (this is often a sign of severe .(respiratory compromise and impending cardiovascular collapse
- --Circulation. After evaluation of both the airway and breathing, the circulation is assessed. The goal of this portion of the primary survey is to identify and treat the presence of shock in the patient. Initially, all active external hemorrhage is controlled with direct pressure, and obvious fractures are stabilized. The pulse is characterized, and a blood pressure (BP) is obtained. The skin perfusion is determined by noting skin temperature and evaluating capillary refill

Over time, end-organ perfusion during trauma resuscitation is estimated using mental status and urine flow as markers

Shock is defined as the inadequate delivery of oxygen and nutrients to tissue. The etiologies of shock can be divided into three broad categories:1. hypovolemic,2. cardiogenic, 3.distributive. The trauma team must be familiar with the manifestations and therapy of each category of shock

Disability The goal of this phase of the primary survey is to identify and treat life-threatening neurologic injuries, and priority is given to evaluating level of consciousness. The level of consciousness is quickly assessed using the APVU system (ascertaining whether the patient is awake, opens eyes to painful stimulus, opens eyes to voice, or is unarousable). The pupils are examined, noting size, symmetry, and responsiveness to light. Focal neurologic deficits are noted. Signs of significant neurologic impairment . Severe neurologic injuries require urgent .evaluation and are either intracranial or spinal in origin

Exposure with environmental control. Its purpose is to allow for complete visual inspection of the injured patient while preventing excessive heat loss. The patient is first completely disrobed, cutting away clothing so as not to disturb occult injuries. The patient then undergoes the visual inspection, including logrolling to examine the back, splaying of the legs to examine the perineum, and elevation of the arms to inspect the axillae. The nude patient loses heat rapidly to the environment. The resuscitation room should be kept as warm as possible. Any cold metal backboard should be removed as quickly as possible, and all soggy clothing or bedclothes should be taken off expeditiously. All resuscitation fluid should be warmed. Finally, the patient should be covered with warm blankets or a —hot airl heating blanket

B. Completion of the primary survey. The completion of the primary survey should be followed by a brief assessment of the adequacy of the initial resuscitation efforts

Monitoring. If not already in place, ECG leads and a pulse oximeter should be applied. Provision for serial BP measurements should be made, preferably by an automatic cuff. Finally, an indwelling urinary catheter should be placed after doing a retrograde urethrogram is necessary. If it is normal, the catheter may be passed. If urethral injuries are present, immediate consultation with a trained urologist is required before attempting to pass the catheter

Laboratory values. After placement of two intravenous catheters, laboratory values should be obtained. The most important test to obtain is the cross-match. Other investigations include blood chemistries, hematologic analysis, coagulation profile, toxicologic analysis (with ethanol level), urine analysis, and beta-human chorionic gonadotropin level if the patient is a woman of child-bearing age. It should not, therefore, be considered an indicator of circulating blood volume in the trauma patient. (Serial hematocrit values, however, may give an indication of .ongoing blood loss.) Finally, an arterial blood gas analysis should be drawn Adequacy of resuscitation. The adequacy of resuscitation can best be determined using urine output and arterial pH as indices because they are excellent global indicators of adequate end-organ perfusion. urinary output of 0.5–1.0 mL/kg per (hour (50–75 mL per hour) in adults (1–2 mL/kg per hour in children Radiographic investigations. Essential radiographic investigations are ordered. These tests can provide critical data regarding injuries sustained in a trauma. These .investigations include X ray, US, CT scan ...etc

C. Secondary survey. It is a complete head-to-toe examination of the patient. Thoroughness is the key to avoid missing injuries, and a systematic approach is required. Only limited diagnostic evaluation is necessary to make a decision about subsequent interventions or evaluations. A review of important aspects of the .secondary survey according to anatomic region follows

II. Definitive hospital care. With the completion of the primary and secondary surveys, definitive hospital care is undertaken, ranging from emergent celiotomy to admission and further assessment. During this phase of care for the trauma patient, extensive diagnostic evaluations are completed and therapeutic interventions performed. In this section, important therapeutic principles are discussed according to the anatomic location of the injury

University of Mosul

College of Nursing

Department of Clinical Nursing Science

Community Health Nursing

Field Visits

Visit to Eld	erly Home
Clinical obj	jectives:

At the end of the visit the student will be able to:

- 1. Identify elderly people in the family / community .
- 2. Recognize the different needs of old population.
- 3. Identify the available community resources that support old people
- 4. Demonstrate the nursing skills in providing care to elderly.

Student's Name:		
Date of the Visit:		
Setting:		
Name of Supervisor:		

Student Guideline for Field Visit

2. Describe the building of the elderly home and the available Departments:
3.State the characteristics of the elderly people to be accepted in The home :
4. List the different services provided for elderly in the home :
5. List the categories of problems that you have observed in elderly Home during your visit :

y:
 ne:
 :

University of Mosul

College of Nursing

Department of Clinical Nursing Science

Community Health Nursing

Field Visits
Visit to occupational health agency.
Clinical objectives:
At the end of the visit the student will be able to:
1. Describe the administrative functions of occupational health Services.
2. Identify occupational health hazard associated with the industry.
3. State the protective measures (personal & environmental) that Instituted by the industry.
4. Describe the role of community health nurse in occupational health services.
Student's Name:
Date of the Visit:
Setting:

Name of Supervisor:

Student Guide for Assessment of Occupational Health Services

Name of industry (Agency):

1. Organizational information:a. Total number of employees:b. Length of work time / shift:c. Length of work per week:d. Age of entry:e. Age of retirement:		
2. Availability of supportive services and	d welfare progran	ns:
Programs	Yes	No
a. Insurance program.		
b. Educational program.		
c. Retirement program.		
d. Recreational program.		
e. Rehabilitation program.		
3. Work environment:		
a. Space :		
Adequate:		
Isolated:		
Crowded:		
b. Standing /Sitting facilities:		
Adequate:		
Inadequate:		
c. Safety equipment /devices:		
Used:		
Not used:		
If used ,what types:		
1. Safety glasses:		
2. Face mask:		
3.Gloves and gowns:		
4. Radiation padges :		
5. Hearing protective devices :		
If not used / Why?		

9. Environmental monitoring : If done how often? Monthly /twice	done a year /yearly.	not done
8. Recreational Facilities :	present	absent
7. Methods of Waste Disposal: Methods a. Solid: b. Liquid: c . Aerosol: d. Accumulation of dust:	safe	unsafe
 6. Sanitary Facilities: Facility 1. Safe drinking water: 2. Hand washing facilities: 3. Rest rooms: 4. Lockers: 5. Toilets: 	present adequate	absent inadequate
5. Risk control measures: Measures 1. Total enclosure: 2. Ventilation: 3. Mechanism guards:	present	absent
4. Types of work place hazards anda. Biological:b. Chemical:c. Physical:d. Psychological:	1	

10. Health and safety progra	ams:		
Health personnel	Yes	No	How many
a. Physician:			
b. Occupational nurse:			
c. Sanitary officer:			
d. Sanitary assistant :			
e. First aid assistant :			
Safety personnel			
a. Safety engineer:			
b. Safety supervisor:			
Health and safety facilities	;		
a. Hospital :			
b. Dispensaries:			
c. First aid station:			
d. Ambulance:			
e. Firefighting devices :			
Health examination and j	programs		
a. Pre- employment:			
b. Periodical:			
c. Special medical:			
d. Post sickness:			
e. Health fitness:			
f. Screening test:			
Referral system :	, ,		
By whom /physician / nurs			
To whom / hospital			
Reason for referral			

-----.

11. Health education for workers :	present	absent
Method: Individual / group: Media used: projected /non projected-:- Who conducts these sessions:		
12. Describe the role of occupational healt Care services at work place :	-	
13. Self evaluation: was this visit beneficial Yes: No: Why?		

Dr. Shatha A. Hasso

Violence: is the intentional use of physical force against another person or against oneself which result to injury or death. 1.6 million person lose their life due to violence,

A *family crisis* is a stressful and disruptive event that comes with or without warning and disturbs the equilibrium of the family. when usual problem-solving methods fail. All families experience periods of crisis:

- a toddler is diagnosed with a serious illness;
- a teenager discovers she is pregnant;
- a father and sole breadwinner in a family loses his job;
- a mother's social drinking becomes habitual after her children go off to college;
- or a family's home is destroyed in a hurricane, earthquake, flood, or fire.
- If you think back on your family's history, you can probably identify one or more People respond to crises differently.

Primary and secondary prevention measures used by community health nurses that help prevent crises include teaching families parenting skills and coping strategies and informing them about community resources. In addition to assessment and education, community health nurses provide tertiary responses with direct assistance during times of crisis.

History of Family Violence

Family crisis is not limited to the developmental crises people experience or the situational crises that come upon us suddenly, usually from forces—such as nature—that are external to the family. Many women and children in the world also experience the crisis of domestic violence. The terms domestic violence, family violence, and interpersonal violence refer to morbidity and mortality attributable to violence within the home setting, involving action by a family member or intimate partner. Domestic violence involves "a systematic pattern of assaultive and coercive behaviors, including physical, sexual, and psychological attacks and economic coercion, that adults or adolescents use against their intimate partner.

Factors lead to Violence:

- 1. Poverty, unemployment, economic dependency
- 2.Polydrug & alcohol abuse
- 3. Dysfunctional family, social environment & lack of emotional support.
- 4. Media influence: violent video game, TV show
- 5. Access to firearm
- 6.Intolerance & ignorance
- 7. Antisocial behavior
- 8.Low parental education
- 9. Diminished economic opportunities
- 10.Family disruption

Risk Factors in elderly people

Regardless of the type of abuse an elder suffers or the motivation of the abuser, two factors are common to all elder abuse situations. The **first factor is the** *invisibility* of elders in general and of abused elders specifically. It is estimated that fewer than 10% of elder abuse cases are reported. Older people usually have less contact with the community which keeps their problems hidden longer. In addition, older adults are reticent to admit to being abused or neglected. Because the abuser is most often a family member, the elder desires to protect the abuser; without this abusing family member, the elder may be entirely alone. On the other hand, the elder may fear reprisal from the abuser for coming forward with a self-report of abuse or telling someone about the home situation.

Cultural and societal values also contribute to keeping "family matters" private, while shame and embarrassment make it difficult for many elders to tell others of the abuse..

The **second risk factor is the** *vulnerability* of older adults. Many elders who are frail are dependent on others for some aspect of their day-to-day survival. At first, they may need to rely on others for transportation, shopping, and housekeeping. Later, they may need help with financial affairs, cooking, and laundry. In time, the elder may need help managing medications, bathing, and eating. The degree to which an elder needs assistance is often kept hidden from others because the elder fears being removed from his present living situation and being placed in a more restrictive environment. Additionally, vulnerability in elders is increased when any of the following characteristics are present:

- (a) impairment and isolation,
- (b) poverty and pathologic caregivers,
- (c) learned helplessness and living in a violent subculture, and
- (d) living in deteriorating housing and crime-ridden neighborhoods.

Types of Abuse

- 1. Physical 16% beatings (battered baby), burning, biting, bruising, head & internal injury, shaken baby syndrome (brain stem & spinal cord injury in 65%-90%).
- 2. Physical & emotional (failure to show affection to child 7%) neglect from shelter, food clothing, education & access to medical care
- 3. Emotional
- 4. Sexual (father & daughter, mother & son or siblings occur in 9%)

Child Neglect

Neglect occurs when the physical, emotional, medical, or educational resources necessary for healthy growth and development are withheld or unavailable. Neglect is obvious to an observer if a very young child is playing unattended outside, is not dressed appropriately for the weather, or has an unkempt appearance. However, neglect is not always so obvious. Parents may refuse to buy eyeglasses for a child who needs them or to access dental care for severely decayed teeth (medical neglect). An 8-year-old may get to school only 3 days a week, possibly without breakfast and no lunch money or packed lunch (educational neglect). A family with three children

may live in a sparsely furnished apartment with very little food available and only intermittent heat and multiple people coming and going in the residence, while the children may appear at school unwashed and without coats in winter weather (general neglect). Emotional neglect may be seen when demands placed on a child are excessive or inappropriate for her development, or the caretaker berates or verbally humiliates a child frequently and without reason.

Signs and Symptoms of Neglect

Neglect may be suspected if one or more of the following conditions exist:

- •• The child lacks adequate medical or dental care.
- •• The child is often sleepy or hungry.
- The child is often dirty, demonstrates poor personal hygiene, or is inadequately dressed for weather conditions.
- There is evidence of poor or inadequate supervision for the child's age.
- •• The conditions in the home are unsafe or unsanitary.
- •• The child appears to be malnourished.
- •• The child is depressed, withdrawn, or apathetic; exhibits antisocial or destructive behavior; shows fearfulness; or suffers from substance abuse or speech, eating, or habit disorders (e.g., biting, rocking, whining).

Child Abuse: by family & relatives

- 1.In poor families
- 2. Teenage parents
- 3.Drug abuse parents
- 4.Particular child or all children
- 5.Is a learned transgenerational behavior

In USA 12 per 1000(900000) in 2006 more in girls, 1500 child of them died

Physical Abuse

Physical abuse is intentional harm to a child by another person that results in pain, physical injury, or death. The abuse may include striking, biting, poking, burning,

shaking, or throwing the child. Corporal punishment, which involves violence against a child as a form of discipline. Many parents today were raised in families in which physical punishment was used as a form of discipline. Even today, it is not unusual to see a parent slap the hand of a toddler to get his attention after he has been told not to do something several times or to prevent him from touching something that would hurt him more than a slap on the hand. Most families know where to draw the line. Others—especially if they were raised with "the belt" or "the switch"—see no harm in using the same physical disciplinary practices with their children.

Battered child syndrome defined as "the collection of injuries sustained by a child as a result of repeated mistreatment or beating". Battered child investigations require thorough follow-up and interviews with caretakers, medical personnel, family members, and school personnel. Investigators should be aware that "a major trait of abusive caretakers is either the complete lack of an explanation for critical injuries or explanations that do not account for the severity of injuries".

Signs and Symptoms of Physical Abuse

Types of Injuries

Types of physical abuse injuries include bruises, burns, bite marks, abrasions, lacerations, head injuries, internal injuries, and fractures.

Behavioral Indicators of Physical Abuse

The following behaviors are often exhibited by physically abused children:

- •• The child is frightened of parents/caretakers or, at the other extreme, is overprotective of parent or caretakers.
- The child is excessively passive, overly compliant, apathetic, withdrawn or fearful or, at the other extreme, excessively aggressive, destructive, or physically violent.
- •• The child and/or parent or caretaker attempts to hide injuries; child wears excessive layers of clothing, especially in hot weather; child is frequently absent from school or misses physical education classes if changing into gym clothes is required; child has difficulty sitting or walking.
- •• The child is frightened of going home.
- •• The child is clingy and forms indiscriminate attachments.
- •• The child is apprehensive when other children cry.

- •• The child is wary of physical contact with adults.
- The child exhibits drastic behavioral changes in and out of parental/caretaker presence.
- The child is hypervigilant.
- •• The child suffers from seizures or vomiting.
- The adolescent exhibits depression, self-mutilation, suicide attempts, substance abuse, or sleeping and eating disorders.

Other indicators of physical abuse may include the following:

- •• A statement by the child that the injury was caused by abuse (chronically abused children may deny abuse).
- Knowledge that the child's injury is unusual for the child's specific age group (e.g., any fracture in an infant).
- Knowledge of the child's history of previous or recurrent injuries.
- Unexplained injuries (e.g., parent is unable to explain reason for injury; there are discrepancies in explanations; blame is placed on a third party; explanations are inconsistent with medical diagnosis).
- •• A parent or caretaker who delays seeking or fails to seek medical care for the child's injury.

Sexual Abuse

assault or sexual exploitation استغلال of a minor and may consist of a single incident or many acts over a long period. Sexual assault includes rape, gang عصابة rape, incest, sodomy, عصابة acts with a child younger than 14 years of age (in most states), oral copulation جماع, penetration of the genital or anal opening by a foreign object, and child molestation تحرش. Incest is sexual abuse among family members who are related by blood (e.g., parents, grandparents, older siblings, aunts, and uncles); it constitutes the most hidden form of child abuse. Intrafamilial sexual abuse refers to sexual activity involving family members who are not related by blood (e.g., stepparents, boyfriends). In most reported cases, the father or male caretaker is the initiator, and the victim is a female child

Indicators of Sexual Abuse

I. History of Sexual Abuse

- A child confides to a friend, classmate رفيق الصف, teacher, a friend's mother, or other trusted adult that she/he has experienced sexual abuse.
- •• A child may disclose information indirectly by such statements as: "I know someone ..." "What would you do if ...?" "I heard something about somebody..."
- •• The child has torn, stained, or bloody underclothing (among her/his clothing or is wearing it).
- Knowledge that a child's injury/disease (vaginal trauma, sexually transmitted disease) is unusual for the specific age group.
- Unexplained injuries/diseases (parent/caretaker unable to explain reason for injury/disease); there are discrepancies in explanation; blame is placed on a third party; explanations are inconsistent with medical diagnosis.
- •• A very young girl is pregnant or has a sexually transmitted disease. Pregnancy alone does not constitute sexual abuse, but if there are indications of coercion or significant age disparity between the minor and her partner, this may lead to reasonable suspicion of sexual abuse that must be reported.

II. Sexual Behavioral Indicators of Sexually

Abused Children

- Detailed and age-inappropriate understanding of sexual behavior (especially among very young children)
- language واضح Sexually explicit
- • Inappropriate, unusual, or aggressive sexual behavior with peers or toys
- العادة السرية masturbation احمق
- • Excessive curiosity about sexual matters or genitalia (self or others)
- Unusually seductive مغري behavior with classmates, teachers, and other adults
- Excessive concern about homosexuality, especially by boys

III. Behavioral Indicators of Sexual Abuse in Younger Children

- •• Enuresis (wetting pants or bedwetting)
- Fecal soiling
- •• Eating disturbances such as overeating or undereating

- Fears or phobias
- Overly compulsive behavior
- School problems or significant change in school performance (attitude and grades)
- Age-inappropriate behavior that includes pseudomaturity or regressive behavior such as bedwetting or thumb sucking
- • Inability to concentrate
- Sleeping disturbances (nightmares, fear of falling asleep, fretful sleep pattern, sleeping long hours)
- Drastic behavior changes
- Speech disorders
- Frightened of parents/caretaker or of going home or being at home

IV. Behavioral Indicators of Sexual Abuse in Older Children and Adolescents

- Withdrawal
- Chronic fatigue
- Clinical depression, apathy
- Overly compliant behavior
- • Over- or under reaction (hysteria or cavalier attitude) to a genital exam
- Poor hygiene or excessive bathing
- Poor peer relations and social skills; inability to make friends
- Acting out; running away; aggressive, antisocial, or delinquent behavior
- Alcohol or drug abuse
- Prostitution or excessive promiscuity
- • School problems, frequent absences, sudden drop in school performance
- Refusal to change clothes for physical education class
- Nonparticipation in sports and social activities
- Fearful of showers or restrooms
- •• Fearful of home life as demonstrated by arriving at school early and leaving late
- Suddenly fearful of other things (going outside or participating in familiar activities)
- •• Extraordinary fear of males (in cases of male perpetrator and female victim)

- Self-consciousness of body beyond that expected for age
- •• Sudden acquisition of money, new clothes, or gifts with no reasonable explanation
- Suicide attempt or other self-destructive behavior
- • Crying without provocation
- Setting fires

V. Physical Symptoms of Sexual Abuse

- Sexually transmitted diseases, especially in prepubescent girls
- Genital discharge or infection
- Physical trauma or irritation to the anal/genital area (pain, itching, swelling, bruising, bleeding, lacerations, abrasions), especially if injuries are unexplained or there is an inconsistent explanation
- Pain during urination or defecation
- Difficulty in walking or sitting due to genital or anal pain
- Psychosomatic symptoms (stomach aches, headaches, chronic pain)

Emotional Abuse

Emotional abuse of children involves psychological mistreatment or neglect, such as when parents do not provide the normal experiences that produce feelings of being loved, wanted, secure, and worthy. This type of abuse is commonly associated with other types of abuse and may involve verbal abuse, such as name calling, belittling, or threatening. A mother may shout at the child, "You're just like your father, a goodfor-nothing, lazy bum." A father may say, "You're ugly. You look just like your mother." If the child spills some juice, a parent may scream, "Everything you do, you do wrong. Can't you do anything right?"

Emotional abuse may also take the form of emotional abandonment. Some parents "shun" بنفسه their children as a form of punishment. They will not speak to them and do not look at them; they behave as if their child does not exist. This behavior may continue for a day or longer, whenever a child displeases the parent. In some cases, the shunning lasts for days. Verbal threats, are also a form of emotional abuse. the parent may have beaten the child with a belt in the past, so merely threatening to use the belt again causes emotional trauma.

Emotional abuse alone is rarely reported because it is another "hidden" form of abuse. people who have a responsibility for the welfare of children and include public and private school employees; administrators and employees of youth centers and recreation programs; child welfare employees; foster parents; group home and residential facility personnel; social workers; probation workers; health care workers including nurses, doctors, and chiropractors; animal control workers; and personnel working in film development laboratories,.

Signs and Symptoms of Emotional Abuse or Deprivation

Emotional abuse should be suspected if the child displays the following behavioral indicators:

- •• Is withdrawn, depressed, or apathetic
- •• Is clingy and forms indiscriminate attachments
- • "Acts out" and is considered a behavior problem
- Exhibits exaggerated fearfulness
- •• Is overly rigid in conforming to instructions of teachers, doctors, and other adults
- Suffers from sleep, speech, or eating disorders
- Displays signs of emotional turmoil that include repetitive, rhythmic movements (rocking, whining, picking at scabs)
- Pays inordinate attention to details or exhibits little or no verbal or physical communication with others
- • Suffers from enuresis and fecal soiling
- Unwittingly makes comments such as "Mommy always tells me I'm bad"
- Experiences substance abuse problems Emotional deprivation should be suspected if the child
- •• Refuses to eat adequate amounts of food and therefore is very frail
- •• Is unable to perform normal learned functions for a given age (e.g., walking, talking)
- Displays antisocial behavior (aggression, disruption) or obvious delinquent behavior (drug abuse, vandalism); conversely, the child may be abnormally unresponsive, sad, or withdrawn.

- Constantly "seeks out" and "pesters" other adults such as teachers or neighbors for attention and affection
- Displays exaggerated fears in the institution.

Other Forms of Family Violence

Three other forms of violence that directly affect families are suicide, homicide, and rape. These three forms

of violence demonstrate the ultimate extreme of violence to the victim and are the most traumatic to the surviving family members.

Prevention of Violence:

Primary Prevention: Promotion of optimal & family wellness by:

- 1. Family life education in schools & communities
- 2. Education on method of conflict resolution
- 3. Parenting classes on hospital, schools &
- 4. Preventive mental health services
- 5. Community education on violence
- 6. Reduction of media violence
- 7. Sheltered of battered woman & their children
- 8. handgun control

Secondary Prevention: diagnosis & services of families in stress

- 1. All health care setting must have nursing assistance of violence
- 2. Safety plan for victim
- 3. Knowledge of legal action
- 4. Shelter or foster home for victim
- 5. Social services of individual & family

6. Self help group

7.hospital emergency department (reporting, case intake, coordinating, legal)

8. Death review team for infant & children

9. Evaluation of violence

10. handgun control

Tertiary Prevention: reduction & rehabilitation of violent families

1. Counseling services

2. Training in child rearing

3.Self help group

4. Foster homes

5. Follow up of known cases of abuse, neglect & violence.

School Violence

An area of growing concern regarding violence against children has been in school settings. Violence in schools may range from bullying, slapping, or punching to weapon use. Random shootings and hostage situations in schools over the past decade have fueled fears about the safety of students and promoted research into how to prevent this type of community violence affecting children. School must have the following:

provide funding, programs, and trainings that improve school safety through the Safe Schools Healthy Students

as an initiative. Six areas identified for attention in building safe school climates are:

• • Creating a safe school environment

• Providing alcohol, drug, and violence prevention and early intervention programs

•• Supporting school and community mental health prevention and treatment intervention services

• Providing early childhood psychosocial and emotional development programs

- •• Addressing education reform
- • Designing safe school policies