

Global Environmental Problems

- ❖ Important note from the last lecture : in slide 32, the allowed doses are in MSv "milli sievert" NOT Sv
so in slide 34 if someone took a radiation dose in SIEVERT, then a dose response issues will appear as mentioned in the slides "this is the important thing you need to know in slide 34"

this lecture will be easy "INSHALLAH" ,so we'll talk about the most important environmental problems around the world .

slide 2

focus on the public health definition.
anything in your physical , biological, social and cultural surroundings that may affect humans health , so we call this environment.

slide 3

25% = quarter , 33% = one third " she mentioned both of these phrases".
these environmental problems are almost 10 folds (10 times more) in developing or poor countries. the real importance of these risk factors related to environmental problems is that they are preventable , we can control and reduce them.

**** less developed , developing or poor** countries they have the same meaning so in the exam the doctor might use any of them.

there are 4 major reasons why poor countries have higher proportion of diseases related to environmental problems that are mentioned in the slides.

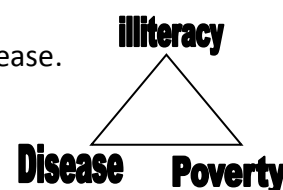
-2nd reason : weak means that there are some regulations and laws but they are not enforced actually.

-3rd reason : might be due to low level of education

-4th reason : there is always a relation between illiteracy , poverty and disease.

slide 4

- Developed , wealthy or industrial countries have their share of environmental problems also.



slide 6

-polluting the soil will cause pollution of the water underground which will cause pollution of the plants which are grown in this place. "I know it seems silly but the doctor focused on this point".

slide 7

- the most important green house gas is Carbon dioxide CO₂
- green house gases are mainly produced by combustion of fossil fuels

- when the sun goes away in one area it is supposed to cool down and temperature must get low , but due to global warming this area doesn't cool down and maintain heat instead because of green house gases, so 3 major phenomena will result that are mentioned in the slides.

-3rd phenomena : this phenomena is resulting due to climate change , some areas that had less rain are having more rain than usual , vice versa.

slide 8

-the global warming phenomena started in the industrial revolution due to having more factories, burning more fuels and the start of using cars and transportation , all of this lead to raising the temperature of the earth by 2.3 or 2.5 degrees, 0.8 is just in the last 100 years .

slide 9

- overpopulation is caused after improving peoples' health , peoples' health started to improve after having enough food.

-in the past there was a lot of starvations which caused the death of a huge number of people and this lead to having an infectious diseases spread among people.

-some public health measures realized that clean water and sanitation is very good for peoples' health , it will improve their immunity and this was way before vaccines, medications and health care.

slide 10

- methods of using the renewable sources are becoming cheaper.

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slide 11

- it takes a really long time (hundreds or thousands) of years to degrade some plastic materials.

-electronic wastes are becoming a great problem (computers, phones, batteries) they contain toxic materials.

slide 14

-Biodiversity : the variety of life in the world or in a particular habitat or ecosystem, the plants or the animals in that found in a certain geographic area.

-human activities such as cutting the forests , trees and plants , and replacing the soil with concrete will cause the death of insects and small animals that may lead their extinction after losing their environment.

slide 17

-sulfur dioxide and nitrogen oxides will go up in the atmosphere and will mix with water causing acid rain.

- oceans will become more acidic so that will harm the marines life.

slide 19

urban sprawl means the uncontrolled expansion of urban areas "الزحف العمراني"

flora > plant cover , **fauna** > animal cover.

slide 20

dengue "حمى الضنك" , the doctor didn't focus on the diseases , but you should read them ^^.

slide 21

genetic engineering for seeds and plants, will produce fruits and grains that are resistant to many insects and diseases , they can survive with less water , so we'll get more crops and more money , we'll feed more people with lower costs.

but sometimes these modifications will cause harm.

slide 23

Not included

slide 24 + 25

the last world climate summit was in Paris in December ,2015

all countries around the world met together to reach for an **agreement on ways to reduce the green house gases production in order to try to stop global warming**

2015 united nations climate change conference, negotiated the Paris **Agreement on reduction of climate change** with the presence of a lot of the world Heads of states "رؤساء العالم"

slide 26

there are two major countries that produce the highest percentage of green house gases:

USA and CHINA "highest total emission"

and if they agreed to sign the agreement this will make the world climate better

per capita emissions depends on the gases produced related to the population , so the Emirates have the highest per capita because it has a low population

slide 27+28

these agreements can't be enforced to any country

"the doctor didn't read the last two slides"

THE END :)

sorry for any mistakes.

A special dedication to our colleague **Dana Rida** for helping everyone in this course :)