

**MINISTRY OF PUBLIC HEALTH OF UKRAINE
O.O. BOGOMOLETS NATIONAL MEDICAL UNIVERSITY**

Department of Hygiene and Ecology

Head of Department
Corresponding member of National Academy
of Medical Sciences of Ukraine
professor Bardov V.G.

Subject: „Hygiene and Ecology”
Speciality: 7.110101 – curative medicine
Year – III, term – 5.

Lecture thesis

„Solar radiation and its hygienic significance. Usage of the solar radiation constituents in preventive medicine. Biosafety questions of solar radiation usage”

for the students of the curative departments

Lecture duration – 2 periods

Compiled by professor Bardov V.G.
assistant professor, PhD Antonenko A.M.

The thesis of the lecture was discussed and endorsed at the scientific and methodological conference of the department

LECTURE PLAN:

1. Importance of solar radiation.
2. Foundations of heliophysics.
3. Interaction of solar radiation and the Earth magnetosphere.
4. Radiation belts of the Earth.
5. Sun radiation and solar activity effect on the Earth biosphere.
6. Influence of solar radiation constituents on human body:
 - a) infrared radiation;
 - б) visible radiation;
 - в) ultraviolet radiation.
7. Body solar insufficiency and its clinical picture.
8. The use of solar radiation for disease prevention and treatment.
9. The use of solar radiation for air, water and objects sanitation.
10. Negative aftermaths of a person's hyperinsolation and their prevention.
11. Biosafety questions of solar radiation usage