KAUST Health, Safety and Environment Toolbox Talk / Toolbox Talk Number HSE/RF/TBT/073

## **Heat Stress**

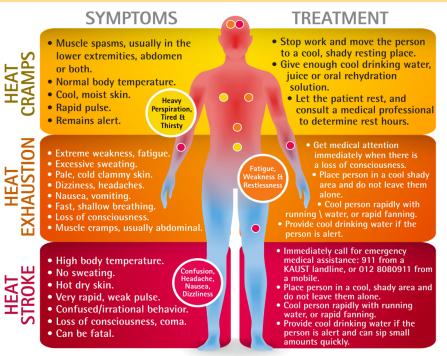


جامعة الملك عبدالله للعلوم والتغنية King Abdulah University of Science and Technology

## The following are the normal responses to excess body heat:

- Reddened skin.
- Body surface temperature increases slightly.
- Sweating increases to provide evaporative cooling.
- Acclimatization occurs over a few weeks.

Typical symptoms and treatment guidelines for the more serious conditions of Heat Stroke, Heat Exhaustion and Heat Cramps are given here:



MOST IMPORTANTLY, do not let schedule or productivity influence awareness or caution in high heat weather. Pressure from Supervisors or Persons in Charge or self-induced pressure is the most dangerous hazard. Monitor the Heat Index levels of the area where work is being undertaken and take appropriate action as specified in the Heat Index Table (Please refer to table below).

## NEVER IGNORE ANYONE'S SYMPTOMS!

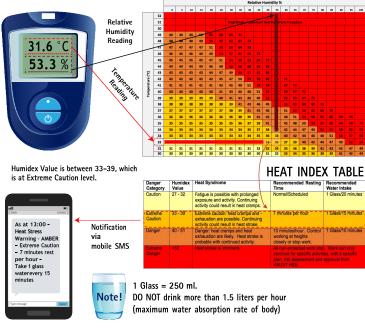
## How to Use The Heat Stress Table

1. Monitor temperature and humidity throughout the day using a handheld temperature humidity meter.

2. Take hourly measurements during peak summer months usually from 1 July to September annually (It is good practice to keep record of your readings, date, time, location, temperature, humidity, and Humidex readings).

3. Locate the Humidex Value by plotting the temperature and humidity readings on the Heat Stress Table.

 Use the Humidex Value to identify the danger category on the Heat Index Table.
Communicate real-time results to managers, supervisors and workers with recommended resting and water intake guides, for example by SMS.



NEVER IGNORE ANYONE'S SYMPTOMS DESPITE YOUR MEASUREMENTS!

6. Check and monitor that precautions are taken.

Questions or comments? Please contacts us at hse@kaust.edu.sa

HEAT STRESS TABLE