

In The Hot Seat? Protecting Workers from Heat Stress

August 18, 2023

With

☐ Juley Fulcher, Public Citizen
☐ Chris Ramsaroop, Justice for Migrant Workers
☐ Eduardo Huesca, Occupational Health Clinic for Ontario Workers
☐ Lindsay Dixon, Canadian Environmental Law Association
☐ Natasha Luckhardt, Ontario Federation of Labour

Hosts: André Gauvin, Dorothy Wigmore

OHCOW

Occupational Health Clinics for Ontario Workers Inc.

Centres de santé des travailleurs (ses) de l'Ontario Inc.

Clinicas de Salud Ocupacional para Trabajadores de Ontario Inc.

Mga Pangkalusugang Klinika sa Trabaho Para sa Mga Manggagawa sa Ontario, Ink.

Heat Stress A Serious Hazard for Outdoor Workers Signs and Symptoms Estrés por calor Una preocupación durante todo el año en invernaderos

Señales y síntomas

สัญญานเตือนและอาการต่างๆ

For outdoor workers



What are the hazards?

Check out OHCOW's infographics







Occupational Health Clinics for Ontario Workers Inc.

Stress Mula sa Init

Mga Senyales at Sintomas

Isang Buong Taong Alalahanin sa Mga Greenhouse

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para Trabajadores de Ontario Inc. Mga Pangkalusugang Klinika sa Trabaho Para sa Mga Manggagawa sa Ontario, Ink. For greenhouse workers

Heat stress can kill!

Signs and symptoms

Early Signs

Bo not ignore warning signs and symptoms.

Phaving heat stress multiple times can lead to kidney disease, diabetes, metabolic syndrome, and obesity.

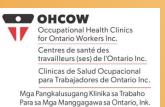
MUSCLE SPASMS / CRAMPS

DEHYDRATION (THIRST)

Heat illness is serious

and gets worse quickly.

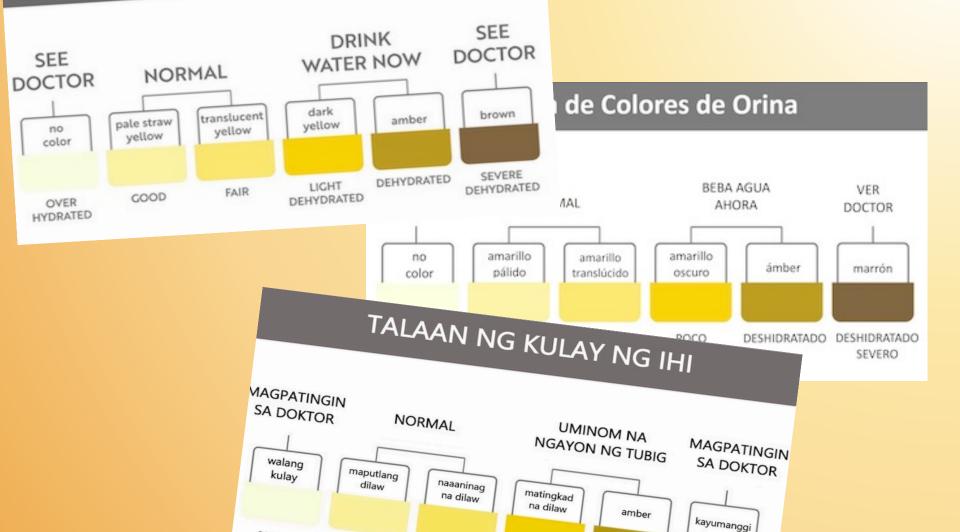




URINE COLOR CHART

SOBRANG HYDRATED

ANGKOP



KATAMTAMAN

DEHYDRATED

NANG BAHAGYA

DEHYDRATED

SOBRANG

DEHYDRATED



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Heat Stroke



TEMPERATURE







CONFUSION / BEHAVIOUR CHANGES / SLURRED SPEECH



FAINTING / PASSING OUT



CONVULSIONS/ SEIZURES



Mga Pangkalusugang Klinika sa Trabaho Para sa Mga Manggagawa sa Ontario, Ink.

The same, only different

- physical fitness
- obesity
- □ age
- pregnancy
- medical conditions/treatments(e.g., heart problems, low-sodium diets, diabetes)
- ☐ illness, sleep deprivation
- chronic skin problems
- ☐ meds/drugs/alcohol
- previous heat stroke
- LACK OF ACCLIMATISATION



ANDI, the world's <u>"first ever 'breathing, sweating, shivering' robot,"</u> a "thermal mannequin", designed to "to help better understand the health impacts of extreme temperatures on the human body." .. yet another example of how men are still, in the year of our Lord twenty twenty three, seen as representative of the entire human race?

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Caroline Criado Perez *Invisible Women, the Newsletter,* July 27, 2023

Heat Stress Can Kill

Take Action before it's too late



Always start and end your day by drinking water

Starting the day dehydrated (not enough water) increases the effects of heat stress and also cause electrolyte (mineral) problems.

If YOU or SOMEONE ELSE has symptoms of:

HEAT STRESS:



One cup every 15 minutes or at least one litre/hour.



*REPLACE electrolyes with watered-down or home-made sports drink



FIND SHADE in a building, or under a tree or umbrella



GET REST Take a break and get some rest or even take a nap

HEAT EXHAUSTION:



MOVE WORKER to a shaded/ cooler area



REMOVE unnecessary dothing (respectfully)



DO NOT LEAVE THEM ALONE ENCOURAGE small sips of water

HEAT STROKE:



CALL 911 IMMEDIATELY



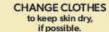
DO NOT LEAVE THEM ALONE



COOL THEM DOWN while waiting for emergency services to arrive

FOCUS on underarm and groin a reas with ice packs / cold cloths





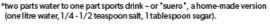
SEEK MEDICAL ATTENTION if your symptoms persist



CALL 911 if symptoms* last more than I hour or get worse especially cramping



NOTIFY your employer / supervisor, co-workers / buddy about the situation





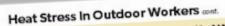


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Employer Responsibilities

Employers should provide:









ACCUMITIZATION PERIOD



INFORMATION and TRAINING Review training in heatwaves. Provide 911 calling information.



HEAT STRESS/EMERGENCY RESPONSE PLAN



WEATHER MONITORING Look for humidex (temperature with the humidity), UV Index, expected temperatures.

Employers are expected to protect workers' health and safety by taking all reasonable precautions.

This includes a process to identify and deal with the factors contributing to heat stress. The process should:



INCLUDE workers, health and safety representatives, and/or joint health and safety committee members.



PROVIDE translation / interpretation as needed to allow everyone to contribute effectively.



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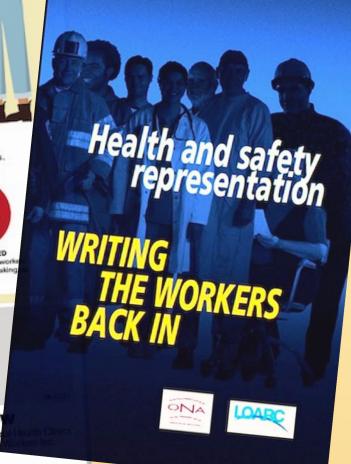
by the employer so works feel comfortable speaking

Additional Tools and Resources

Humidex-based Heat Stress Calculator And Plan [OHCOW] Humidex-based Heat Response Plan [OHCOW] Calling 911 [OHCOW]

Stay Hydrated in the Heat [OHCOW, et al] Hot Environment Fact Sheets [CCOHS]







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Stay Hydrated in the Heat

When you work outside in the heat, your body loses water, salt and other important minerals called electrolytes. If your body loses too much water and electrolytes, you may start to feel sick. To avoid this,

Drink water throughout the day

- Drink 1 bottle of water (16 ounces or Q.5 liters) about 2 hours before you leave for
- Drink 1-2 bottles of water (0.5 liter to 1 liter) every hour while you work in the heat.
- Drink water after you get home from work to continue to replace what you lost through sweating at work.

Drink healthy, low-sugar beverages

- You can drink coconut water, electrolyte drinks (such as sport drinks), and "aguas frescas" (made from fresh fruits or vegetables). It is best if these drinks are low in sugar.
- Many sports and energy drinks have too much sugar. If you drink sports drinks, add water to them so that they are about 2/3 water and 1/3 sports drink. Avoid energy drinks. (Horne-made "suero": 1/4 - 1/2 teaspoon salt, 1 tablespoon sugar, stir in one life water.)
- Alcohol dehydrates. Avoid drinking alcohol on days you work.

Eat these foods during the day

- Dairy: fresh cheese, yogurt
- Protein: Beans, lentils, chicken, fish.
- Seeds and nuts: sunflower seeds, almonds, cashews.
- Fruits: watermelon, banana, oranges, cucumber, avocado
- Vegetables: spinach, broccoli



Distributed in Ontario by the Occupational Health Clinics for Ontario Workers (OHCOW)

Text, Whatshop or cell 1-289-684-2821 follow us on Facebook ohoow sg-program



icteos: Queso fresco, yogur

- Verduras: Espinacas, brócoli



UTHealth Houseon

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Text, WhatsApp o llame: 1-289-684-2821 Facebook: ohcow ag-program TO OHCOW Document Health Chriss for Ortania Workers Inc. Ottores de Seisel Orapectonel: para Trabapationes de Ortanio Inc.

Manatiling Hydrated sa Kainitan

Kapag ikaw ay nagtrabaho sa labas sa kasagsagan ng init, ang iyong katawan ay naglilimas ng tubig, asin, at iba pang mga importanteng mineral na tinatawan na nagtabahasa. Kama kasagsagan ng nagtabahasa ng sababahasa kasagsagan ng nagtabahasa ng sababahasa ng nagtabahasa ng na eletrolytes. Kung ang iyong katawan ay nabawasan ng sobrang daming tubig at kang magsimulang makaramdam ng sakit. Upang ito ay , maaari mong gawin ang mga sumusunod:

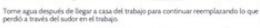
Manténgase hidratado en el calor

Cuando trabaja afuera en el calor, su cuerpo pierde agua, sal y otros minerales importantes llamados electrolitos.

Si su cuerpo pierde demásiada agua y electrolitos, puede comenzar a sentirse enfermo. Para evitar esto, puede hacer lo siguiente:

l'ome agua durante el día

- Torne 1 botella de agua (16 onzas o 0,5 litros) unas 2 horas antes de salir al trabajo
- Torne 1-2 botellas de agua (0,5 litros hasta 1 litro) cada hora mientras trabaja.



ome bebidas saludables y bajas en azúcar

Puede tomar agua de coco, bebidas electrolíticas (como suero) y aguas frescas (hechas de frutas o verduras frescas). Es mejor que estas bebidas sean baias en azúcar.

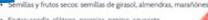
Muchas bebidas deportivas y energéticas tienen demasiada azúcar. Si toma bebidas deportivas, agrégueles agua para que sea aproximadamente 2/3 de agua y 1/3 de bebida deportiva. Evite tomar bebidas energéticas. (Suero casero: Mezclar 1/4 - 1/2 cucharadita de sal, 1 cucharada de azúcar en un litro de agua.)

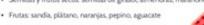
Il alcohol deshidrata. Evite tomar alcohol los días que trabaie.

ma estos alimentos durante el día











big sa maghapon

tubig sa maghapon (16 onsa o 0.5 litro) mga 2 oras

tubig (0.5 litro hanggang 1 litro) kada oras habang kaintan.

awi galing sa trabaho upang patuloy na mapalitan ang magitan ng pagpapawis habang nagtatrabaho.



sabaw ng buko, electrolyte drinks (tulad ng sport ia" (galing sa samwang mga prutas at gulay), iga inuming ito ay mababa sa asukal.

is at energy drinks ay masyadong marami ang ng sports drinks, dagdagan ito ng tubig upang ito rink, Iwasang uminom ng energy drinks.

ibe. [wasang uminom ng alak sa mga araw na ikaw



Sentil, manok, isda inflower, almond, kasuy

kahel, pipino, abokado

roccoli







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(Home-made "suero": 1/4 - 1/2 teaspoon salt, 1 tablespoon sugar, stir in one litre water.)

https://www.ohcow.on.ca/posts/stavhydrated-in-the-heat/