

Dehydration Risk Awareness Tool (RAT)

Presented by: The Virginia Department of Behavioral Health and Developmental Services The Office of Integrated Health Health Supports Network

Who benefits from this training

DSP's and caregivers- you will learn important risk factors associated with dehydration, learn to recognize signs and symptoms, and how to report and document.

Support Coordinators-you will learn important risk factors associated with dehydration, understand the signs and symptoms that DSP's and caregivers are going to recognize and provide in documentation, and learn diagnosis that may be associated with risk factors.

Objectives

- 1. Define dehydration.
- 2. State (4) signs and symptoms of dehydration.

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- 3. Identify (3) causes of dehydration
- 4. State (3) risk factors for dehydration.
- 5. List one diagnostic test used by physicians to determine dehydration.
- 6. Identify (2) interventions used to correct dehydration.
- 7. List (2) complications caused by unidentified dehydration.
- 8. State (2) interventions to prevent dehydration.

Terms & Definitions

Electrolytes-are minerals in the body that have an electric

charge. They have many important jobs, including helping to

keep a balance of fluids in the body.

Hyponatremia - is a low sodium concentration in the blood.

UTI- refers to a urinary tract infection.



What is **Dehydration**?

Dehydration is condition caused by the loss of too much fluid from the body. It happens when loss of fluids is greater than fluids that are taken in, and the body does not have enough fluids to work properly.

There are 2 types of dehydration; water loss dehydration (hyperosmolar, due either to increased sodium or glucose) and salt and water loss dehydration (hyponatremia)(Rolands , 2019).

Signs and Symptoms

- •Feeling thirsty
- •Dry mouth, tongue or skin
- Poor skin turgor
- Muscle cramps
- Constipation
- •Headache
- Tiredness or lethargyIrritability
- •Decreased urine output or dark, concentrated urine
- Dizziness or fainting
- •Sweating less than usual
- Rapid heartbeat or breathing
- Confusion or disorientation
- Low blood pressure (orthostatic hypotension)

URINE COLOR



Causes of Dehydration

- Diarrhea
- Vomiting
- Sweating too much
- Fever
- Not drinking enough
- Urinating too much (Can be caused by certain medications and illnesses)



Diagnosis & Treatment

Diagnosis requires an evaluation of the Individual and laboratory testing, clinical assessment, and knowledge of the Individual's medical history (Rolands, 2019).

How to treat...

- Encourage to drink water or other hydrating beverages.
- IV (intravenous) fluids should begin as soon as possible in a hospital or emergency care setting. IV fluids are usually a saline solution, made of water, sodium, and other electrolytes. By receiving fluids through an IV rather than by drinking them, the body can absorb them more quickly and recover faster (Thomas, et al., 2008).

Treating severe dehydration usually requires more than providing water or other beverages.

Water & Proper Hydration

Why Drink Water?

Removes toxins
Raises energy level
Helps you lose weight
Promotes healthy skin
Helps digestion
Can help prevent constipation
Building block of new cells
Helps maintain body temperature
Acts as a shock absorber
Main ingredient in saliva
Keeps joints lubricated

(Peckenpaugh, 2010,

Importance of reporting change

Many individuals with intellectual are at risk for dehydration due to being unable to verbalize thirst, being immobile and unable to get a drink when desired and being reliant on others to provide hydration. According to a literature study completed in 2019, the prevalence of dehydration ranged from 44%-75% for people suffering with difficulty swallowing (dysphagia) (Reber et al, 2019).

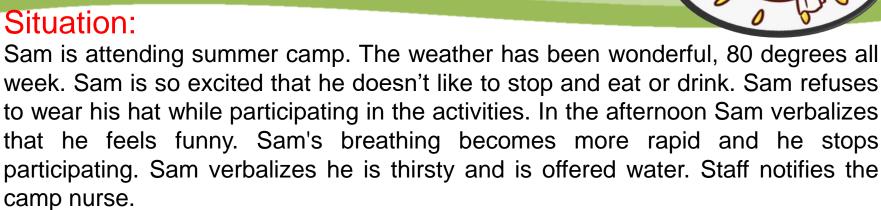
Although thickening liquids may address the dysphagia issue, thickening agents decrease desire for drinking due to texture and coating in mouth. Individuals with orders for thickened liquids should be monitored to ensure they are receiving adequate hydration (Reber et al., 2019)

Any changes or recognition that an individual has signs and symptoms on dehydration should be reported immediately. The individual should be taken to their PCP or an Urgent Care if issue is found on a weekend. Document your findings in daily note and who it was reported to.



DSP's connect the dots....

Situation:



Example only: follow your agency documentation standards.

Example of a daily note:

04/13/20 Sam attended summer camp today. Staff encouraged Sam to wear a hat due to the weather, but he refused. Staff encouraged Sam to drink water throughout the day, but Sam refused. Sam ate only 25% of his lunch. At 1:30pm that he felt funny and staff observed him sitting and not participating in the group activities. Staff observed Sam breathing fast. Sam reported he was thirsty and was given water. Staff reported observations to camp nurse.

Way to go DSP, you recognized a change!

DSP's connect the dots....

Use the RAT tool to help staff be aware of risks and also prompt changes that need to occue with plans and support instructions. The RAT can help providers be proactive.

Step 2:	If the person does not meet criteria in Step 1 (above), consider if these common indicators for dehydration occurred				
	the past plan year. (Check all that apply)				
	 Refuses to drink water Requires assistance to be fed (food or liquid) Has experienced diarrhea Has experienced unexplained weight loss Has experienced dry mouth 	You are the boots on the ground! Based on your daily observations you			
	 Has experienced strong smelling or darkened urine Is prescribed laxatives or enemas (daily or PRN / prescription or OTC) Has experienced vomiting Is prescribed routine diuretic medication 	may recognize a change in statue that would require evaluation. If you notice any of the			

require evaluation. If you notice any of the risk factors listed below for dehydration, report and document it quickly.

Case Study

Jane lives in a group home with three other individuals. She enjoys going out into the community and loves to eat out. Jane is diagnosed with moderate intellectual disability, Seizures, and Paranoid Schizophrenia. Jane also has frequent urinary tract infections due to becoming dehydration. Jane's urologist has ordered that she consume at least 2000ml daily to help produce frequent urination. This requires staff to prompt and encourage throughout the day. Although Jane likes to be social, sometimes the paranoia keeps her from participating fully in activities. She has auditory hallucinations which make her fearful of others.

Jane becomes fearful of food and drink at times. Fearing that staff have not washed their hands when preparing, she will refuse to eat or drink. Jane likes food that is individually wrapped. If she finds spots on the utensils at mealtimes she will refuse to eat or drink. Jane enjoys drinking tea and coffee; however caffeine increases her seizure activity.

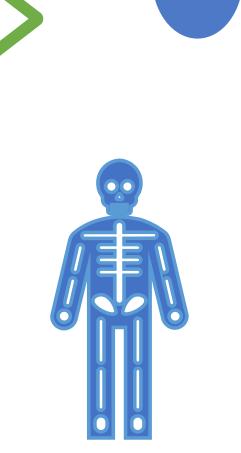
Apply what you learned

State (3) ways you could help Jane meet or exceed her daily recommendation for fluid intake and help her avoid becoming dehydrated.

• 1.____

• 2._____

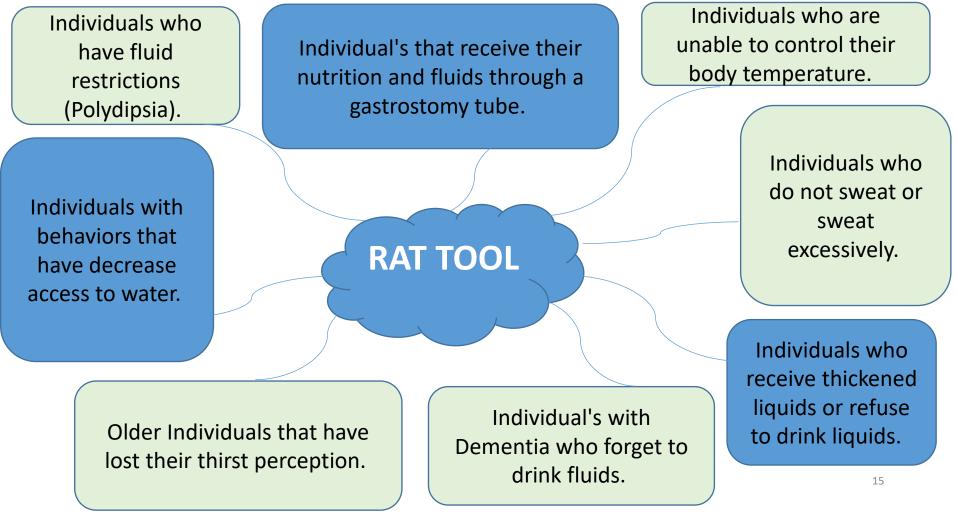
• 3._____





Connect the dots with the RAT Tool...

SC's- as you are completing the RAT tool keep in mind there are key diagnoses and situations you need to incorporate in discussion with providers and caregivers to ensure risk factors are being recognized.



Follow these steps to success...

Remember! Think about all settings: home, Day Support, Community Engagement

SECTION D - Dehydration

Dehydration is an abnormal loss of water from the body, especially from illness or physical exertion.

Step 1: The person has been diagnosed by a medical professional with <u>dehydration</u> in this past plan year.

If <u>YES</u> is checked in Step 1 (above), the diagnosis must be addressed in the ISP. Skip Steps 2-3 and proceed to Section E. If <u>NO</u> is checked in Step 1 (above), complete Steps 2-3 below before proceeding to Section E.

Skip Step 2 and go to Section E

Step 2: If the person does not meet criteria in Step 1 (above), consider if these common indicators for <u>dehydration</u> occurred in the past plan year. (Check all that apply)

Refuses to drink water
 Requires assistance to be fed (food or liquid)
 Has experienced diarrhea

Has experienced unexplained weight loss

Has experienced dry mouth

Has experienced strong smelling or darkened urine

Is prescribed laxatives or enemas (daily or PRN / prescription or OTC)

Has experienced vomiting

Is prescribed routine diuretic medication

Prior to ISP meeting, review discharge summaries, medical reports, and health history for information.

YES

NO

Follow these steps to success...

SECTION D - Dehydration						
	Dehydration is an abnormal loss of water from the body, especially from illness or physical exertion.					
			YES	NO		
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	 Has experienced vomiting Is prescribed routine diuretic medication 					
Step 3:	Based on the above risk indicators, a referral to a qualified Healthcare Professional is develop a plan to reduce the <u>risk of dehydration</u> . If no risk indicators were selected, proceed to Section E. Individual declined referral to Qualified Healthcare Professional (please select one of the optic Currently have a Support Plan/Protocol Other		ate and hel	D		
	Qualified Healthcare Professional will be contacted by: Dr. Hopewell	Target Date: N	ov 15, 2	D		

Dehydration continued... WHO CAN HELP?



There are a number of healthcare professionals that can provide guidance toward reducing risk and possible adverse events. The PCP is the gate keeper to accessing other healthcare professionals.

Healthcare professionals that can assess, diagnose and prescribe treatment include but are not limited to:

- Primary Care Practitioner (PCP)
- Urologist
- Dietician/Nutritionist



References

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