From: Hatcher, Michael (ATSDR/DTHHS/EMB)

Sent: 5 May 2016 09:16:18 -0400

To: Stephens, James W. (ATSDR/DTHHS/OD)

Cc: Murray, Ed (ATSDR/DTHHS/OD); Pinheiro, Germania

(ATSDR/DTHHS/EMB);Tencza, Brian (ATSDR/DTHHS/EMB) **Subject:** Clinician Counseling FAQ for PFASs

Attachments: Physician PFASs Counseling Fact Sheet May 5th 2016.docx

Importance: High

Jimmy,

Attached is the clinician counseling FAQ for PFASs. I am sending for your advanced review and will send to Selene for her review shortly. If you are think we are ready to share with the group, I will send to John Decker to distribute.



An Overview of Perfluoroalkyl and Polyfluoroalkyl Substances for Clinicians Responding to Patient Exposure Concerns

Introduction

The purpose of this fact sheet is to aid physicians with patient consultations on per- and polyfluoroalkyl substances (PFASs). It highlights what PFASs are, specifies which chemicals fall into this category of substances, identifies health effects associated with exposure to various PFASs, and suggests how to address patient concerns about potential PFASs exposure.

What are PFASs?

Per- and polyfluorinated alkyl substances (PFASs), sometimes known as PFCs (per- and polyfluorinated chemicals) are synthetic chemicals and do not occur naturally in the environment. There are many different types of PFASs such as perfluorocarboxylic acids (PFOAs, sometimes called C8, or PFNAs) and perfluorosulfonates (PFOS and PFHxS). These chemicals have been used since the 1950s in many commercial applications, as well as in industrial and consumer products because of their surfactant and stain- and water-repellant properties. Specifically, these chemicals have been used in adhesives, cosmetics, cleaning products, and firefighting foams.

Why are PFASs a possible health concern?

According to the US. Environmental Protection Agency (EPA), PFASs are considered emerging contaminants. An "emerging contaminant" is a chemical or material that is characterized by a perceived, potential, or real threat to human health or the environment or by a lack of published health standards.

PFOS and PFOA are two of the most studied PFASs. Exposure to PFOA and PFOS is widespread and global. PFASs are extremely persistent in the environment and resistant to typical environmental degradation processes. The source pathway for dispersion of these chemicals appears to be long-range atmospheric and oceanic currents transport. Several PFASs and their potential precursors are ubiquitous in the urban environment. Some long-chain PFASs bioaccumulate in animals and can enter the human food chain. The term 'long chain' perfluorinated substances refers to PFASs with carbon chain lengths C8 and higher (including PFOA) and PFASs with carbon chain lengths C6 and higher (including PFOS).

PFOS and PFOA also persist in the human body and are eliminated slowly. Both PFOS and PFOA can be found in the blood, urine, breast milk and in umbilical cord blood.

PFOS and PFOA pose potential adverse effects for human health given their potential toxicity, mobility and bioaccumulation potential.

PFASs Physician Fact Sheet: May 5, 2016

Pre-clearance Draft

What are the main sources of exposure to PFASs?

For the general population, ingestion of PFASs is considered the major human exposure pathway. The major types of human exposure sources for PFASs, include:

- Drinking contaminated water
- Ingesting food that may contain high levels of PFASs, such as certain types of fish and shellfish
- Ingesting food contaminated by packaging materials containing PFASs (e.g., popcorn bags, fast food containers, and pizza boxes)
- Hand-to-mouth transfer from surfaces treated with PFAS-containing stain protectants, such as carpets, which is thought to be most significant for infants and toddlers
- Workers in industries or activities that manufacture, manipulate or use products containing PFASs may be exposed to higher levels than the general population.

What are other low level exposure sources?

Individuals can also be exposed by breathing air that contains dust contaminated with PFASs (from soil, carpets, upholstery, clothing, etc.), or from certain fabric sprays containing this substance.

Dermal exposure is a minor exposure pathway. Dermal absorption is slow and does not result in significant absorption.

What are the potential PFASs exposure risks to fetuses and children?

Recent research evaluating possible health effects to fetuses from PFAS exposures have shown that developing fetuses can be exposed to PFASs when umbilical cord blood from their mothers cross the placenta during pregnancy. It is important to note that different PFASs have varying levels of permeability to the placental barrier.

Newborns can be exposed to PFASs through breast milk. Older children may be exposed to PFASs through food and water, similar to adults. In addition, young children have a higher risk of exposure to PFASs from carpet cleaners and similar products, largely due to time spent lying and crawling on floors in their early years.

How long do PFASs remain in the body?

Different PFASs have different half-lives. PFASs usually persist in the blood more than 1000 days. PFOS and PFOA have half-lives in humans ranging from 2 to 9 years.

What are exposure limits for PFASs in drinking water?

The Environmental Protection Agency (EPA) has determined that the concentration of PFOA and PFOS in drinking water, either individually or combined, should not be greater than 0.07 parts per billion. If this concentration is exceeded, EPA advises that an alternative drinking source should be used.

What are PFASs levels in the American population?

Most people in the United States and in other industrialized countries have measurable amounts of PFASs in their blood.

The National Health and Nutrition Examination Survey (NHANES) is a program of studies conducted by the Center for Diseases Control and Prevention (CDC) to assess the health and nutritional status of adults and children in the United States. NHANES (2011–2012) measured the concentration of PFASs in the blood of the general U.S. population (12 years of age and older). The average blood levels found were as follows:

- PFOA: 2.1 parts per billion, with 95% of the general population at or below 5.7 parts per billion
- PFOS: 6.3 parts per billion, with 95% of the general population at or below 21.7 parts per billion
- PFHxS: 1.3 parts per billion, with 95% of the general population at or below 5.4 parts per billion

Based on data collected from previous NHANES survey years, levels of PFASs are decreasing in the blood of the general population.

How can PFASs potentially affect human health?

There is limited evidence about the health effects on humans from PFASs.

Animal Studies:

Adverse health effects have been demonstrated in animal studies, but these occurred at levels higher than those found in people. The main health effects observed were: increase in liver weight, changes in spleen, thymus, and developmental endpoints. Adenomas of the liver, testis, and pancreas were observed in rats exposed to PFOA. Liver adenomas were also found in those rats exposed to PFOS. Toxicological studies give us important clues, but the exact link between the health effects of PFASs on animals and how that relates to human health has not been established yet.

Human Studies:

(http://www.c8sciencepanel.org/prob_link.html)

Cholesterol	Some epidemiological studies demonstrated statistically significant associations between serum PFOA and PFOS levels and total cholesterol in: • workers exposed to PFASs, • residents of communities with high levels of PFOA in the drinking water compared to NHANES data the US general population, Other studies have found no association between PFASs exposures and the total cholesterol endpoint.	
Uric acid	Several studies have evaluated the possible association between serum PFOA and serum PFOS levels and uric acid. Significant associations were found between serum PFOA and uric acid levels at all evaluated exposure levels.	
Liver effects	A number of human studies have used liver enzymes as biomarkers of possible liver effects. In occupational studies, no	

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	associations between liver enzymes and serum PFOA or PFOS levels were consistently found. A study of highly exposed residents demonstrated significant associations but the increase in liver enzymes was small and not considered to be biologically significant.
Cancer	Increases in prostate, kidney, and testicular cancers have been found in workers exposed to PFASs and people living near a PFOA facility. These results should be interpreted cautiously because the findings were not consistent, and most studies did not control for other potential factors including smoking. Additional research is needed to clarify this association. The International Agency for Cancer Research (IARC), however, has classified PFOA as possibly causing some cancers. No other PFASs have been evaluated by the IARC.

There are still important research gaps about these chemicals that need to be addressed but the toxicity in animals, mobility, persistence, and bioaccumulation of these substances in the environment raise concerns about possible human health effects.

What are potential health effects from prenatal PFASs exposure to fetuses?

There is evidence to suggest that high serum PFOA or PFOS levels may possibly be associated with lower birth weights. Although some studies have found this association, the decreases in birth weight were small and were not considered clinically significant. A study found that 1-ng/mL increase in prenatal PFOS and PFOA levels that were associated with a 5.00 gram reduction in birth weight for PFOS and 14.72 gram reductions in birth weight for PFOA (Verner et.al. DOI:10.1289/ehp.1408837). While the lower birth weight is not seen as clinically significant, any decrease in birthweight is a concern warranting further study.

Information to answers questions patients may have for the clinician.

As a clinician, you know careful listening and patient engagement is critical for ensuring quality patient care, especially when health concerns are raised. Perhaps the most difficult challenge in speaking with patients about their health concerns is addressing uncertainty. If your patient has concerns about an exposure to PFASs, you may face the challenge of helping your patient cope with the uncertainty of potential health effects from a PFAS exposure.

Based on feedback from clinicians and from individuals who have spoken to their health care provider about their PFAS exposure concerns, a set of patient questions have been identified. To assist you in speaking with your patients about their concerns, key messages and supporting facts needed to answer the anticipated patient questions are provided in the table below for your use.

Before the patient questions are presented, a reminder about communicating uncertainty is offered. These tips are:

- Listen carefully to your patients and try not to rush to a solution.
- Do not downplay concerns.

- Ask about others in the home that also may have been exposed. Does the patient's family member have any symptoms of illness?
- Share with the patient as much information as possible in order to help them understand their health risks.

Patient Questions and Key Message Answers:

Questions	Key Patients Messages	Key Messages Supporting Facts
Patients May Ask		
Patients May Ask What should I do, there are high levels of PFASs in my water?	If the water you use is above the safety limits EPA has set, you should find an alternative water source for drinking, food preparation, cooking, brushing teeth, and other activity that might result in you swallowing the contaminated water.	Potential health effects are associated with exposure to PHASs. EPA has established a health advisory PFOA and PFOS drinking water concentrations level at 0.07 parts per billion or greater. PFOA and PFOS are additive. If PFOA and PFOS at individual or combined concentrations exceed 0.07 parts per billion, a new drinking water source is advised. Normal processes to prepare water
		for drinking, do not remove any of the PFASs. Home water filters and boiling water will not remove PFASs from a drinking water source. If bottle water is the alternative selected, your patient should be advised to select bottle water that uses reverse osmosis in the bottlings process. There are no regulations regarding PFASs level that water bottlers must meet. If water bottlers draws water from a PFAS contaminated source that bottled water would not be a good alternative.
Is it safe for me to	Breastfeeding is associated with	Extensive research has documented
breastfeed my	numerous health benefits for	the broad and compelling
baby?	infants and mothers.	advantages of breastfeeding for
		infants, mothers, families, and
	At this time, it is recommend that	society. Some of the many benefits
	you as a nursing mother continue	include immunologic advantages,
	to breastfeeding your baby.	lower obesity rates, and greater

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Questions Patients May Ask	Key Patients Messages	Key Messages Supporting Facts
Could my current health problem be related to PFASs exposure?	The science on the health effects of PFAS for mothers and babies is growing and this guidance could change. However, given the scientific understanding at this time, the benefits of breastfeeding your baby outweigh those of not breastfeeding. Research has not conclusively connected any current health problem to past or current PFASs exposure.	cognitive development for the infant as well as a variety of health advantages for the lactating mother. Even though a number of environmental pollutants readily pass to the infant through human milk, the advantages of breastfeeding continue to greatly outweigh the potential risks in nearly every circumstance. While some health studies have found health associations with PFASs exposure, the studies are inconsistent and it remains unclear if PFASs cause any of the health problems. If a patient presents with concerns that a health issue is connected to PFASs exposure, it is appropriate to discuss the patient's concerns and perform a thorough health history and physical exam relative to any symptoms reported.
Do I need to be concerned about future health problems that might occur because of PFASs exposure?	Research has not conclusively connected PFASs to any future health problem that might develop. However, we can continue to monitor new findings on PFASs health effects and evaluated your health status annually.	While some health studies have found associations with PFASs exposures and health effects, like:

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Questions Patients May Ask	Key Patients Messages	Key Messages Supporting Facts
Should I get a blood test for PFASs?	Blood test for clinical use is not recommended. The blood test has no value in diagnosis, treatment or prognosis of a future health effect for the patient.	The value of blood testing is in evaluating exposure at a population level and monitoring an exposed population over time. In this case, monitoring can evaluate if exposure reduction measures in a community were successful. However, given the long biological half-life of PFASs frequent blood monitoring has no value.
What do my PFASs blood tests results mean?	The blood test for PFASs can only tell us the levels of specific PFASs in your body at the time you were tested. The blood tests results cannot be interpreted and used in your patient care.	There is currently no established PFAS blood level at which a health effect is known nor is there a level that predict past or future health problems. The level of PFASs can only be compared to the average national blood level for the different PFASs in the NHANES studies. This can tell a person if their blood levels are within range of the national norms or if their levels are high or low compared to the national average.
Should I be tested for any of the health effects associated with PFASs exposure (cholesterol level, liver function, uric acid, etc.)?	Laboratory testing is not recommended to monitor cholesterol levels, liver function, and uric acid because of a PFAS exposure concern. However, if you are concerned we can do baseline testing to determine if these values are within the normal range for you.	Health effects associated with PFASs are not specific and can be caused by many other factors. There are no baseline guidelines to support use of these clinical test to monitor PFASs health concerns. Patient concerns, previous and existing conditions identified in the differential diagnosis, age, symptoms, and physical examination should be taken into account to request these tests. Baseline blood tests for cholesterol, uric acid, thyroid function tests and liver function are well established in clinical medicine for acute and

Questions Patients May Ask	Key Patients Messages	Key Messages Supporting Facts
		chronic conditions. If appropriate clinical laboratory monitoring is done, those laboratory measures can be considered in assessing the overall health of the patient.

Where can I get more information?

Resource	Link	
ATSDR		
Toxic Substance Portal	http://www.atsdr.cdc.gov/substances/index.asp	
ToxFAQs	http://www.atsdr.cdc.gov/toxfaqs/tf.asp?id=1116&tid=237	
CDC	http://www.cdc.gov/biomonitoring/PFCs_FactSheet.html	
C8 Science Panel	http://www.c8sciencepanel.org/prob_link.html	
EPA	https://www.epa.gov/chemical-research/research-perfluorooctanoic-acid-pfoa-and-other-perfluorinated-chemicals-pfcs	
IARC	http://www.iarc.fr/	
NIEHS	https://www.niehs.nih.gov/health/materials/perflourinated_chemicals_508.pdf	

From: Day, Kristine (CDC/ONDIEH/NCCDPHP)

Sent: 6 May 2016 12:17:55 -0400

To: Knutson, Donna (CDC/ONDIEH/NCEH); Breysse, Patrick N. (CDC/ONDIEH/NCEH)

Subject: confirming who from CDC to include RE: Call EPA/CDC on May 10

Following up to confirm if these are the correct CDC/ATSDR attendees based on Tom's list of EPA participants below.

Pat

Donna

Pam P-B

Christian

According to EPA...

"Tom wanted to keep the meeting small. EPA participants would be:

- -Tom Burke
- -Robert Kaplan (Region 5 Regional Administrator)
- -Joel Beauvais (Acting Deputy Assistant Administrator of Water)"

From: Clancy, Carolyn

Sent: 2 May 2016 09:39:42 -0400

To: Breysse, Patrick N. (CDC/ONDIEH/NCEH)

Subject: FW: Editing proposed new rules for GW Vet Brain Cancer and Camp

Lejeune

Importance: High

Pat,

OMB will not consider non-peer reviewed documents. So I think we will have to do our best (and quite a bit of rework) to get Camp Lejeune regs out (don't see a way around this).

For the future: if ATSDR aspires to impact policy — and be recognized publicly for same — you will need to create a faster path than typical peer-reviewed processes (my recollection is that journal articles published by CDC scientists can take many months to exit internal CDC processes).

When I was at AHRQ we dealt with this issue with respect to work we did for CMS — many scientists also wanted to publish their work so we worked with some journals to establish rapid processes with shared reviewers (i.e. Same reviewers would examine both manuscript and policy document). Comparable issue for USPSTF.

Happy to chat and/or put you in touch with folks who led this work.

Carolyn

Carolyn M. Clancy, MD Deputy Under Secretary for Health, Organizational Excellence Department of Veterans Affairs 810 Vermont Ave, NW Washington, DC 20420 202-461-0370

From: "Flohr, Brad, VBAVACO"
 brad.flohr@va.gov<mailto:brad.flohr@va.gov>>

Date: Monday, May 2, 2016 at 8:45 AM

To: Department of Veterans Affairs <carolyn.clancy@va.gov<mailto:carolyn.clancy@va.gov>>, Ralph

Ericsson <Ralph.erickson@va.gov<mailto:Ralph.erickson@va.gov>>, "Irons, Terra"

<Terra.Irons@va.gov<mailto:Terra.Irons@va.gov>>

Cc: "Russo, Bill" <Bill.Russo@va.gov<mailto:Bill.Russo@va.gov>>, "Lezama, Nicholas G."

- <Nicholas.Lezama@ya.gov<mailto:Nicholas.Lezama@ya.gov>>, "Kalasinsky, Victor"
- <Victor.Kalasinsky@va.gov<mailto:Victor.Kalasinsky@va.gov>>, "Dursa, Erin"
- <Erin.Dursa2@va.gov<mailto:Erin.Dursa2@va.gov>>, "Barth, Shannon K."
- <Shannon.Barth@va.gov<mailto:Shannon.Barth@va.gov>>, "Schneiderman, Aaron"
- <Aaron.Schneiderman@va.gov<mailto:Aaron.Schneiderman@va.gov>>

Subject: RE: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Carolyn,

Per our discussion with OMB last week, they will not consider non-peer reviewed documents. We are deleting our references to the ATSDR paper in the regulation and replacing them with reference to the sources of the information used by ATSDR: IOM, EPA, IARC, etc.

Brad

From: Clancy, Carolyn

Sent: Sunday, May 01, 2016 10:54 AM

To: Flohr, Brad, VBAVACO; Erickson, Ralph L.; Irons, Terra

Cc: Russo, Bill; Lezama, Nicholas G.; Kalasinsky, Victor; Dursa, Erin; Barth, Shannon K.; Schneiderman,

Aaron

Subject: Re: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Re CLJ — I spoke with Pat Breysse who thought (and will verify) that we can shared their document for the purpose of establishing draft regulations, i.e., share with OMB. He asked if this would be sufficient from their perspective? (I know some entities would consider a technically un-reviewed document to be 'gray' literature)

Can you let me know??

Carolyn M. Clancy, MD Deputy Under Secretary for Health, Organizational Excellence Department of Veterans Affairs 810 Vermont Ave, NW Washington, DC 20420 202-461-0370

.

From: Clancy, Carolyn

Sent: 2 May 2016 16:07:39 -0400

To: Breysse, Patrick N. (CDC/ONDIEH/NCEH)

Subject: FW: Editing proposed new rules for GW Vet Brain Cancer and Camp

Lejeune

A bit more

Carolyn M. Clancy, MD Deputy Under Secretary for Health, Organizational Excellence Department of Veterans Affairs 810 Vermont Ave, NW Washington, DC 20420 202-461-0370

From: "Irons, Terra" < Terra.Irons@va.gov < mailto: Terra.Irons@va.gov >>

Date: Monday, May 2, 2016 at 8:49 AM

To: Department of Veterans Affairs <carolyn.clancy@va.gov<mailto:carolyn.clancy@va.gov>>, "Flohr,

Brad, VBAVACO"

brad.flohr@va.gov<mailto:brad.flohr@va.gov>>, Ralph Ericsson

<Ralph.erickson@va.gov<mailto:Ralph.erickson@va.gov>>

Cc: "Russo, Bill" <Bill.Russo@va.gov<mailto:Bill.Russo@va.gov>>, "Lezama, Nicholas G."

<Nicholas.Lezama@va.gov<mailto:Nicholas.Lezama@va.gov>>, "Kalasinsky, Victor"

<Victor.Kalasinsky@va.gov<mailto:Victor.Kalasinsky@va.gov>>, "Dursa, Erin"

<Erin.Dursa2@va.gov<mailto:Erin.Dursa2@va.gov>>, "Barth, Shannon K."

<Shannon.Barth@va.gov<mailto:Shannon.Barth@va.gov>>, "Schneiderman, Aaron"

<Aaron.Schneiderman@va.gov<mailto:Aaron.Schneiderman@va.gov>>

Subject: Re: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Yes ma'am, this is the case. We were instructed to make edits to the scientific reasoning based only on literature and assessments that have been published.

Terra

Sent from my BlackBerry 10 smartphone on the Verizon Wireless 4G LTE network.

From: Clancy, Carolyn

Sent: Monday, May 2, 2016 8:34 AM

To: Irons, Terra; Flohr, Brad, VBAVACO; Erickson, Ralph L.

Cc: Russo, Bill; Lezama, Nicholas G.; Kalasinsky, Victor; Dursa, Erin; Barth, Shannon K.; Schneiderman,

Aaron

Subject: Re: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Thank you

If you could confirm with them that this is the case I will get that feedback to ATSDR (the bottom line, if they want to be science 'white hats' who impact policy, they need a new work process(

Carolyn M. Clancy, MD Deputy Under Secretary for Health, Organizational Excellence Department of Veterans Affairs 810 Vermont Ave, NW Washington, DC 20420 From: "Irons, Terra" < Terra.Irons@va.gov < mailto: Terra.Irons@va.gov >>>

Date: Monday, May 2, 2016 at 8:31 AM

To: Department of Veterans Affairs <carolyn.clancy@va.gov<mailto:carolyn.clancy@va.gov>>, "Flohr,

Brad, VBAVACO"

's brad.flohr@va.gov<mailto:brad.flohr@va.gov>>, Ralph Ericsson

<Ralph.erickson@va.gov<mailto:Ralph.erickson@va.gov>>

Cc: "Russo, Bill" <Bill.Russo@va.gov<mailto:Bill.Russo@va.gov>>, "Lezama, Nicholas G."

<Nicholas.Lezama@va.gov<mailto:Nicholas.Lezama@va.gov>>, "Kalasinsky, Victor"

<Victor.Kalasinsky@va.gov<mailto:Victor.Kalasinsky@va.gov>>, "Dursa, Erin"

<Erin.Dursa2@va.gov<mailto:Erin.Dursa2@va.gov>>, "Barth, Shannon K."

<Shannon.Barth@va.gov<mailto:Shannon.Barth@va.gov>>, "Schneiderman, Aaron"

<a>Aaron.Schneiderman@va.gov<mailto:Aaron.Schneiderman@va.gov>>

Subject: Re: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Dr. Clancy,

I think they have seen it. The problem is that they would ideally want to reference the document, but it has not been peer reviewed or published; therefore, they don't want to mention it in the regulation at all.

Sent from my BlackBerry 10 smartphone on the Verizon Wireless 4G LTE network.

From: Clancy, Carolyn

Sent: Sunday, May 1, 2016 10:53 AM

To: Flohr, Brad, VBAVACO; Erickson, Ralph L.; Irons, Terra

Cc: Russo, Bill; Lezama, Nicholas G.; Kalasinsky, Victor; Dursa, Erin; Barth, Shannon K.; Schneiderman,

Aaron

Subject: Re: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Re CLJ — I spoke with Pat Breysse who thought (and will verify) that we can shared their document for the purpose of establishing draft regulations, i.e., share with OMB. He asked if this would be sufficient from their perspective? (I know some entities would consider a technically un-reviewed document to be 'gray' literature)

Can you let me know??

Carolyn M. Clancy, MD Deputy Under Secretary for Health, Organizational Excellence Department of Veterans Affairs 810 Vermont Ave, NW Washington, DC 20420 202-461-0370

From: "Flohr, Brad, VBAVACO"

 strad.flohr@va.gov<mailto:brad.flohr@va.gov>>

Date: Wednesday, April 27, 2016 at 8:19 AM

To: Ralph Ericsson <Ralph.erickson@va.gov<mailto:Ralph.erickson@va.gov>>, "Irons, Terra"

<Terra.Irons@va.gov<mailto:Terra.Irons@va.gov>>

Cc: "Russo, Bill" <Bill.Russo@va.gov<mailto:Bill.Russo@va.gov>>, "Lezama, Nicholas G."

<Nicholas.Lezama@va.gov<mailto:Nicholas.Lezama@va.gov>>>, Department of Veterans Affairs

<carolyn.clancy@va.gov<mailto:carolyn.clancy@va.gov>>, "Kalasinsky, Victor"

<Victor.Kalasinsky@va.gov<mailto:Victor.Kalasinsky@va.gov>>, "Dursa, Erin"

<Erin.Dursa2@va.gov<mailto:Erin.Dursa2@va.gov>>, "Barth, Shannon K."

<Shannon.Barth@va.gov<mailto:Shannon.Barth@va.gov>>, "Schneiderman, Aaron"

<Aaron.Schneiderman@va.gov<mailto:Aaron.Schneiderman@va.gov>>

Subject: RE: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Thanks for this, Loren and Terra.

Brad

From: Erickson, Ralph L.

Sent: Wednesday, April 27, 2016 4:12 AM

To: Irons, Terra

Cc: Flohr, Brad, VBAVACO; Russo, Bill; Lezama, Nicholas G.; Clancy, Carolyn; Kalasinsky, Victor;

Dursa, Erin; Barth, Shannon K.; Schneiderman, Aaron

Subject: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Terra:

While I'm out-of-the-office I ask that you get a start on helping edit the science portion of the new proposed rules we discussed on Monday afternoon. (Thanks again for dialing in!) If I leave anything out in this message, I'm sure that either Brad Flohr or Bill Russo will add as appropriate. In a prior email I shared with you the two draft rules documents that were discussed.

Brain Cancer: The key elements that need to be added or clarified here are references to prior published work that showed an increase in brain cancer among GW Vets, but NOT an increase in any other cancer (e.g. Barth et. al). We should also be sure that we mention that we extended our review of these mortality data into more recent years. You might also ask Vic Kalasinsky or go to Gulf Link to get a map showing the extent of the plume / oil well fires smoke across this region in 1991. N.B. Because SecVA has not announced this proposed presumption, it will not be announced at the RAC by any of us.

Camp Lejeune: The big issue here is that ATSDR has never posted their 67 page document to the public NOR have they had it peer-reviewed. As you heard on the phone, OMB will have no part of referencing a phantom document! For that reason, we will need to scrub the science section of this proposed rule (for the 9 conditions) and reference only the published peer-reviewed literature that supported our TWG conclusions. We should also mention IARC, NTP, EPA, etc... as their classifications carry weight. The ATSDR water study is also important to mention as it was the starting point for exposure assessment. In essence, we will need to briefly explain that we started with reviewing the evidence for the 15 conditions mentioned in the 2012 CL law ... reviewed all of the literature, especially what was new since the 2009 NRC report... and decided that certain disease conditions met our standard (preponderance of the evidence) for inclusion in new presumptions, while other conditions did not. The addition of Parkinson's disease was based on the recent publication of the IOM's report reviewing our clinical guidelines. We'll need to find a way to reference IARC or something to support the inclusion of bladder cancer.

I will be back by at my house by mid-day on Tuesday and can then help review where we stand with the edits. Thanks!

Brad and Bill: Do you have anything else to add from your notes for the science edits we need to make on these two?

Dr. Clancy: I've included you on the CC line for your situational awareness and because neither Brad nor I will be able to attend the CoSVA's meeting on Thursday to update him on our progress.

ATB, Loren
 From:
 Cibulas, William (ATSDR/OA/OD)

 Sent:
 29 Apr 2016 09:54:03 -0400

To: Breysse, Patrick N. (CDC/ONDIEH/NCEH)

Cc: Everhart, Cheryl (ATSDR/OA/OD);Sarisky, John (CDC/ONDIEH/NCEH);Decker,

John A. (CDC/ONDIEH/NCEH)

Subject: FW: EPA School IPM Roundtable – May 25 Roundtable Agenda & Logistical

Information

Attachments: Schools IPM Roundtable 05-25-16 Agenda v4.docx, Principles for School IPM

Roundtable v3.pdf

Pat - 1) Doesn't look like Administrator McCarthy is participating, only AA Jim Jones; 2) Both CDC and ATSDR logos attached to document.

John – It says we can bring a colleague. Let me know if Program has interest in attending.

Bill

From: Gail Bingham [mailto:gbingham@resolv.org]

Sent: Friday, April 29, 2016 9:19 AM

To: Sheila Heitzig (sheitzig@aaaai.org) <sheitzig@aaaai.org>; Tonya Winders (twinders@allergyasthmanetwork.org) <twinders@allergyasthmanetwork.org>; James Roberts (robertsj@musc.edu) <robertsj@musc.edu>; Cary Sennett (csennett@aafa.org) <csennett@aafa.org>; Adams-Taylor, Sharon (CDC aasa.org) <Sadams@aasa.org>; Cibulas, William (ATSDR/OA/OD) <wic1@cdc.gov>; Kristie Trousdale <kristiet@cehn.org>; Claire Barnett (healthyschools@aol.com) <healthyschools@aol.com>; Tom Green (ipmworks@ipminstitute.org) <ipmworks@ipminstitute.org>; jli@naccho.org (CDC naccho.org) <jli@naccho.org>; Dove, Roxanne [NEA] <RDove@nea.org>; David Dyjack <ddyjack@neha.org>; Joanne Zurcher <JZurcher@neha.org>; Sandra Whitehead <SWhitehead@neha.org>; Andy Architect (aarchitect@pestworld.org) <a href="mailto:sarchitect@pestworld.org>; Jim Fredericks <jfredericks@pestworld.org>; Schantz, Shirley (CDC nasn.org) <sschantz@nasn.org>; John Bailey (john.bailey@cpschools.com) <john.bailey@cpschools.com>; Kimberly Richey (krichey@nsba.org) <kri>krichey@nsba.org) <kri>krichey@nsba.org>; Raul Rivas (RRivas@pike.k12.in.us) <RRivas@pike.k12.in.us>; Seth Miller (millers@gowestville.org) <millers@gowestville.org>; Dawn Gouge (dhgouge@ag.arizona.edu) <dhgouge@ag.arizona.edu>

Cc: Frank Ellis (Ellis.Frank@epa.gov) <Ellis.Frank@epa.gov>; Eiden, Catherine <Eiden.Catherine@epa.gov>; Glick, Sherry <Glick.Sherry@epa.gov>; Dana Goodson <dgoodson@resolv.org>; Gail Bingham <gbingham@resolv.org>
Subject: EPA School IPM Roundtable – May 25 Roundtable Agenda & Logistical Information

Dear colleagues,

We are writing to thank you for your interest in EPA's School Integrated Pest Management Initiative and to confirm your or your organization's participation in theRoundtable to be held on *May 25, 2016, from 9:00 a.m. to 12:30 p.m.* in the William Jefferson Clinton East Building on 1201 Constitution Avenue, Room 1153, Washington, DC.

A proposed agenda is attached. Please bring photo identification and allow sufficient time to pass through security. There is plenty of space for you to bring a colleague, but please let us know their name(s) so that we can plan accordingly.

As you know, participating organizations are invited to sign on to a statement of voluntary principles. We have attached a copy of the principles with the logos we have so far; and we will update it as we get the logos of those organizations who are in the process of seeking final approvals. In addition, if your organization has information on IPM that you might wish to share, please feel free to bring copies to the Roundtable.

For those who are traveling to DC from outside the region, EPA has reserved a block of rooms at the Crystal Gateway Marriott near Washington's Reagan National Airport (DCA) at the government rate of \$226/night. To reserve a room in the "Resolve Meeting" block, go to the following web address: https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=15065398. Please make your reservation by **next Wednesday, May 4.**

For any travel-related questions, please contact Dana Goodson at dgoodson@resolv.org or 202-965-6209.

Please let us know if you have any questions. We look forward to seeing you on May 25.

Gail Bingham and Dana Goodson

Gail Bingham, President En	neritus	
Ph: (202) 965-6200 Cell:	(b)(6)	

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U.S. Environmental Protection Agency

Schools Integrated Pest Management (IPM) Roundtable

Wednesday, May 25, 2016 | 9:00 AM - 12:30 PM

William Jefferson Clinton East Building | Room 1153 | 1201 Constitution Avenue, Washington, DC

Agenda

Desired Outcomes

- Launch the Schools IPM Initiative
- Learn about the networks and communications channels participant organizations have available, and what information and resources organizations would find helpful
- Share information and resources EPA and other participants have on IPM in schools
- Discuss next steps

Materials: Schools IPM Principles

8:45 Gather for coffee/tea and informal conversation

(Please bring photo ID and allow time to go through security.)

9:00 Welcome and Opening Remarks

Jim Jones, Assistant Administrator, Office of Chemical Safety and Pollution Prevention, U.S. EPA

Participant Introductions

9:45 Participant Discussion: Outreach Mechanisms

Objective: Learn about the networks and communication channels participant organizations have available, and what information and resources organizations would find helpful.

10:30 BREAK

10:45 Presentations and Discussion: Information Resources

Objective: Share success stories and challenges to implementation, and brainstorm effective ways to implement school IPM. Share information and resources that EPA and other participants have about IPM in schools.

Presentations [60 min]

- Seth Miller, PhD, Superintendent, Westville School District, Westville, IL
- Raul Rivas, Director of Facilities and Security, Metropolitan School District of Pike Township (IN)
- Ricardo Zubiate, Assistant Director Facilities Services, Salt Lake City School District
- Dawn Gouge, PhD, Associate Professor, University of Arizona
- Frank Ellis, Branch Chief, Office of Chemical Safety and Pollution Prevention, U.S. EPA

Discussion [30 min]

12:15 Wrap Up and Next Steps

Objective: Discuss plans for a follow up meeting and other ways to share information and questions as participants engage in outreach to members.

12:30 Adjourn

School Integrated Pest Management Initiative

The U.S. Environmental Protection Agency convened the undersigned national organizations to pursue a voluntary effort to make Integrated Pest Management (IPM) practices the standard in all schools over the next three years. These organizations met in May 2016 and will reconvene in a year to review progress toward this shared goal.

IPM is a science-based approach to pest management that seeks to control pest problems proactively, avoiding the unnecessary use of and exposure to pesticides while achieving acceptable control of pests indoors and outdoors.

Principles of Agreement

- We understand that children are uniquely vulnerable to environmental hazards due to their developing systems and greater exposures
- We support and will promote and communicate making sound IPM practices the standard in all schools
- We will encourage implementation of school IPM policies and practices and will encourage our members to routinely re-evaluate and improve their practices, as needed

Recommendations for Schools and School Districts

- Assess current pest management practices and recurring pest problems
- Designate and train an appropriate staff person to coordinate IPM activities
- Adopt and implement an IPM policy or plan to prevent and effectively address pest problems
- Conduct regular inspections and monitoring for pests and pest conducive conditions
- Adopt in-house IPM pest prevention and control practices indoors and outdoors and/or contract with pest management firms to perform IPM services
- · Provide IPM education corresponding to the roles of those in the school community
- Visit epa.gov/managing-pests-schools for free tools and information

Participants



























Appendix

How Can EPA Help?

EPA will provide information and tools to help schools implement IPM programs. EPA will not represent these materials as endorsed by participating organizations, but will make them available to anyone wishing to use them.

The following information was available as of Spring 2016:

- Instructional Videos apps.cdpr.ca.gov/schoolipm/managing_pests/video_series.cfm
- Training cals.arizona.edu/apmc/StopSchoolPests.html
- Webinars go.usa.gov/cTZX9
- IPM Resources ischoolpestmanager.org
- Sample Pest Management Contract go.usa.gov/cTZ8z
- Sample IPM Policy go.usa.gov/cTZX3
- · Assistance:
 - Center of Expertise for School IPM school.ipm@epa.gov; 844-EPA-SIPM
 - Regional School IPM Coordinators go.usa.gov/cZ6AQ

From: Stephens, James W. (ATSDR/DTHHS/OD)

Sent: 6 May 2016 17:59:49 +0000

To: Decker, John A. (CDC/ONDIEH/NCEH)

Subject: FW: Updated version of clinician fact sheet

Attachments: Physician PFASs Counseling Fact Sheet Draft May 6th review.docx

John, I think this still needs some work but is getting closer. Can you please take a look and let me know what you think?

From: Hatcher, Michael (ATSDR/DTHHS/EMB)

Sent: Friday, May 06, 2016 1:50 PM

To: Stephens, James W. (ATSDR/DTHHS/OD) < jws9@cdc.gov>

Subject: RE: Updated version of clinician fact sheet

Jimmy,

This is near to complete. We still are looking for the health effects from PFHxS and PFNA to add. Have not located the spot Selene mentioned yet. Also we want to work on the stress topic more. I will send you some work that was done years back on Katrina.

How do you want to connect and talk about these?



Michael T. Hatcher, DrPH
Chief, Environmental Medicine Branch
Division of Toxicology and Human Health Sciences
Agency for Toxic Substances and Disease Registry
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MHatcher@cdc.gov
See our educational resources at:
http://www.atsdr.cdc.gov/emes/index.html

From: Stephens, James W. (ATSDR/DTHHS/OD)

Sent: Friday, May 06, 2016 12:57 PM

To: Hatcher, Michael (ATSDR/DTHHS/EMB) <mth1@cdc.gov>

Subject: RE: Updated version of clinician fact sheet

Awesome. Thanks!

From: Hatcher, Michael (ATSDR/DTHHS/EMB)

Sent: Friday, May 06, 2016 12:56 PM

To: Stephens, James W. (ATSDR/DTHHS/OD) < jws9@cdc.gov>

Subject: RE: Updated version of clinician fact sheet

We are almost there. We have reworked a lot of the document to consider community and patient concerns.



From: Stephens, James W. (ATSDR/DTHHS/OD)

Sent: Friday, May 06, 2016 12:54 PM

To: Hatcher, Michael (ATSDR/DTHHS/EMB) < mth1@cdc.gov>

Subject: Updated version of clinician fact sheet

Are we going to have an updated version of the clinician fact sheet today in time to discuss it with John Decker? I'd like to have a chance to go through it with him before the weekend if possible.

An Overview of Perfluoroalkyl and Polyfluoroalkyl Substances for Clinicians Responding to Patient Exposure Concerns

Introduction

The purpose of this fact sheet is to aid physicians and other clinicians with patient consultations on per- and polyfluoroalkyl substances (PFASs). It highlights what PFASs are, specifies which chemicals fall into this category of substances, identifies health effects associated with exposure to various PFASs, and suggests how to address patient concerns about potential PFASs exposure.

What are PFASs?

Per- and polyfluorinated alkyl substances (PFASs), sometimes known as PFCs are synthetic chemicals and do not occur naturally in the environment. There are many different types of PFASs such as perfluorocarboxylic acids (PFOAs, sometimes called C8, and PFNAs) and perfluorosulfonates (PFOS and PFHxS). These chemicals have been used since the 1950s in many commercial applications, as well as in industrial and consumer products because of their surfactant and stain- and water-repellant properties. Specifically, these chemicals have been used in adhesives, cosmetics, cleaning products, and firefighting foams.

Why are PFASs a possible health concern?

According to the US. Environmental Protection Agency (EPA), PFASs are considered emerging contaminants. An "emerging contaminant" is a chemical or material that is characterized by a perceived, potential, or real threat to human health or the environment or by a lack of published health standards.

PFOS and PFOA are two of the most studied PFASs. Exposure to PFOA and PFOS is widespread and global. PFASs are extremely persistent in the environment and resistant to typical environmental degradation processes. The pathway for dispersion of these chemicals appears to be long-range atmospheric and oceanic currents transport. Several PFASs and their potential precursors are ubiquitous in the urban environment. Some long-chain PFASs bioaccumulate in animals and can enter the human food chain.

PFOS and PFOA also persist in the human body and are eliminated slowly. Both PFOS and PFOA can be found in the blood, urine, breast milk and in umbilical cord blood.

PFOS and PFOA pose potential adverse effects for human health given their potential toxicity, mobility and bioaccumulation potential.

What are the main sources of exposure to PFASs?

For the general population, ingestion of PFASs is considered the major human exposure pathway. The major types of human exposure sources for PFASs, include:

- Drinking contaminated water
- Ingesting food that may contain high levels of PFASs, such as certain types of fish and shellfish
- Ingesting food contaminated by packaging materials containing PFASs (e.g., popcorn bags, fast food containers, and pizza boxes)

- Hand-to-mouth transfer from surfaces treated with PFAS-containing stain protectants, such as carpets, which is thought to be most significant for infants and toddlers
- Workers in industries or activities that manufacture, manipulate or use products containing PFASs may be exposed to higher levels than the general population.

What are other low level exposure sources?

Individuals can also be exposed by breathing air that contains dust contaminated with PFASs (from soil, carpets, upholstery, clothing, etc.), or from certain fabric sprays containing this substance.

Dermal exposure is a minor exposure pathway. Dermal absorption is slow and does not result in significant absorption.

What are the potential PFASs exposure risks to fetuses and children?

Recent research evaluating possible health effects to fetuses from PFAS exposures have shown that developing fetuses can be exposed to PFASs when umbilical cord blood from their mothers cross the placenta during pregnancy. It is important to note that different PFASs have varying levels of permeability to the placental barrier.

Newborns can be exposed to PFASs through breast milk. Older children may be exposed to PFASs through food and water, similar to adults. In addition, young children have a higher risk of exposure to PFASs from carpet cleaners and similar products, largely due to time spent lying and crawling on floors in their early years.

How long do PFASs remain in the body?

Different PFASs have different half-lives. PFASs usually persist in the blood more than 1000 days. PFOS and PFOA have half-lives in humans ranging from 2 to 9 years.

What are exposure limits for PFASs in drinking water?

The Environmental Protection Agency (EPA) has determined that the concentration of PFOA and PFOS in drinking water, either individually or combined, should not be greater than 0.07 parts per billion. If this concentration is exceeded, EPA advises that an alternative drinking source should be used.

What are PFASs levels in the American population?

Most people in the United States and in other industrialized countries have measurable amounts of PFASs in their blood.

The National Health and Nutrition Examination Survey (NHANES) is a program of studies conducted by the Center for Diseases Control and Prevention (CDC) to assess the health and nutritional status of adults and children in the United States. NHANES (2011–2012) measured the concentration of PFASs in the blood of the general U.S. population (12 years of age and older). The average blood levels found were as follows:

• PFOA: 2.1 parts per billion, with 95% of the general population at or below 5.7 parts per billion

- PFOS: 6.3 parts per billion, with 95% of the general population at or below 21.7 parts per billion
- PFHxS: 1.3 parts per billion, with 95% of the general population at or below 5.4 parts per billion

Based on data collected from previous NHANES survey years, levels of PFASs are decreasing in the blood of the general population.

How can PFASs potentially affect human health?

There is limited evidence about the health effects on humans from PFASs. There are still important research gaps about these chemicals that need to be addressed but the toxicity in animals, mobility, persistence, and bioaccumulation of these substances in the environment raise concerns about possible human health effects. Below are summaries of studies in animals and humans.

Animal Studies:

Adverse health effects have been demonstrated in animal studies, but these occurred at levels higher than those found in people. The main health effects observed were: increase in liver weight, changes in spleen, thymus, and developmental endpoints. Adenomas of the liver, testis, and pancreas were observed in rats exposed to PFOA. Liver adenomas were also found in those rats exposed to PFOS. Toxicological studies give us important clues, but the exact link between the health effects of PFASs on animals and how that relates to human health has not been established yet.

Human Studies:

C8 Health Study

A large epidemiological study, the C8-science panel, included 69,000 persons > 18 years of age. It found probable links between elevated PFOA blood levels and the following health outcomes: high cholesterol (hypercholesteremia), ulcerative colitis, thyroid diseases, testicular cancer, kidney cancer, preeclampsia, and elevated blood pressure during pregnancy. The reason for this study was to determine whether a probable link exists between PFOA and any human disease involving releases of the chemical known as PFOA from a West Virginia facility. Inhabitants in the surrounding area of these releases showed 500-times elevated PFOA-concentrations in blood compared to the general population (NHANSE).

Overview of Human Studies

Cholesterol	Some epidemiological studies demonstrated statistically significant associations between serum PFOA and PFOS levels and total cholesterol in:
	 workers exposed to PFASs, and residents of communities with high levels of PFOA in the
	drinking water compared to NHANES data for the U.S.

	general population, Other studies have found no association between PFASs exposures and the total cholesterol endpoint.
Uric acid Several studies have evaluated the possible association serum PFOA and serum PFOS levels and uric acid. Signi associations were found between serum PFOA and uric levels at all evaluated exposure levels.	
Liver effects	A number of human studies have used liver enzymes as biomarkers of possible liver effects. In occupational studies, no associations between liver enzymes and serum PFOA or PFOS levels were consistently found. A study of highly exposed residents demonstrated significant associations but the increase in liver enzymes was small and not considered to be biologically significant.
Cancer	The International Agency for Cancer Research (IARC) has classified PFOA as possibly carcinogenic and EPA has concluded that both PFOA and PFOS are suggestive carcinogenic. Some studies have found increases in prostate, kidney, and testicular cancers in workers exposed to PFASs and people living near a PFOA facility. Other study findings are not consistent and most did not control for other potential factors including smoking. Additional research is needed to clarify this association.

What are potential health effects from prenatal PFASs exposure to fetuses?

There is evidence to suggest that high serum PFOA or PFOS levels may possibly be associated with lower birth weights. Although some studies have found this association, the decreases in birth weight were small and were not considered clinically significant.

Another study found that a 1-ng/mL increase in prenatal PFOS and PFOA levels that were associated with a 5.00 gram reduction in birth weight for PFOS and 14.72 gram reductions in birth weight for PFOA (Verner et.al. DOI:10.1289/ehp.1408837).

While the lower birth weight is not seen as clinically significant, any decrease in birthweight is a concern warranting further study.

Patient Questions and Key Message Answers:

As a clinician, you know careful listening and patient engagement is critical for ensuring quality patient care, especially when health concerns are raised. Perhaps the most difficult challenge in speaking with patients about their health concerns is addressing uncertainty. If your patient has concerns about an exposure to PFASs, you may face the challenge of helping your patient cope with the uncertainty of potential health effects from a PFAS exposure.

Based on feedback from clinicians and from individuals who have spoken to their health care provider about their PFAS exposure concerns, a set of patient questions have been identified. To assist you in speaking with your patients about their concerns, key messages and supporting facts needed to answer the anticipated patient questions are provided in the table below for your use.

Questions	Key Patients Messages	Key Messages Supporting Facts
Patients May Ask		
What should I do, there are high levels of PFASs in	If the water you use is above the safety limits EPA has set, you should find an alternative	Potential health effects are associated with exposure to PHASs.
nevels of PFASS in my water?	water source for drinking, food preparation, cooking, brushing teeth, and other activity that might result in you swallowing the contaminated water.	EPA has established a health advisory PFOA and PFOS drinking water concentrations level at 0.07 parts per billion or greater. PFOA and PFOS are additive. If PFOA and PFOS at individual or combined concentrations exceed 0.07 parts per billion, a new drinking water source is advised. Normal processes of improving home water quality, do not remove any of the PFASs. Most home water filters and boiling water will not remove PFASs from a drinking water source. If bottle water is the alternative selected, your patient should be advised to select bottled water that lists use of reverse osmosis on its label. There are no regulations setting limits on the level of PFASs allowed in bottled water. If water bottlers draw water from a PFAS contaminated source that bottled water would not be a good alternative. Reverse osmosis processing would eliminate contaminants like PFASs.
Is it safe for me to	Breastfeeding is associated	Extensive research has documented the
breastfeed my baby?	with numerous health benefits for infants and mothers.	broad and compelling advantages of breastfeeding for infants, mothers, families, and society.
	At this time, it is recommend that you as a nursing mother continue to breastfeeding	Some of the many benefits include immunologic advantages, lower obesity rates, and greater cognitive

Questions Patients May Ask	Key Patients Messages	Key Messages Supporting Facts
ratients may Ask	your baby. The science on the health effects of PFASs for mothers and babies is growing and this guidance could change. However, given the scientific understanding at this time, the benefits of breastfeeding your baby outweigh those of not breastfeeding.	development for the infant as well as a variety of health advantages for the lactating mother. Even though a number of environmental pollutants readily pass to the infant through human milk, the advantages of breastfeeding continue to greatly outweigh the potential risks in nearly every circumstance.
Could my current health problem be caused by exposure to PFASs?	Positive association: (the following have a positive association) Thyroid disease High cholesterol Ulcerative colitis Testicular cancer Kidney cancer Pregnancy-induced Hypertension Liver effects High uric acid Your health problem could potentially associated with exposure to PFASs. However, current research cannot absolutely prove PFASs causes this illness. OR Negative association: Your health problem has not been associated with exposure to PFASs.	Key supporting facts on health effects for each of these associated diseases can be found in this fact sheet on page 3 "How can PFASs potentially affect human health?" Suggestion to the clinician: If a patient presents with concerns that a health issue is connected to PFASs exposure, it is also appropriate to discuss the patient's concerns and perform a thorough health history and physical exam relative to any symptoms reported.

Questions Patients May Ask	Key Patients Messages	Key Messages Supporting Facts
Are there future health problems	Studies have suggested an association between PFASs	Studies in humans and animals are inconsistent and inconclusive but study
that might occur because of PFASs exposure?	and certain health effects but they are not definitive. No current studies predict future health effects after exposure to PFASs.	findings suggest that certain PFASs affect a variety of possible endpoints. Confirmatory research is needed to better understand PFASs health risks.
	However we can continue to review new findings on PFASs and continue to evaluate your health status.	
Should I get a blood test for PFASs?	Measuring PFASs in your blood is not necessary. A blood test has no value in diagnosis, treatment, or prognosis of a future health effect for a patient.	There is currently no established PFAS blood level at which a health effect is known nor is there a level that predicts past or future health problems.
What do my PFASs blood tests results mean?	The blood test for PFASs can only tell us the levels of specific PFASs in your body at the time you were tested.	There is currently no established PFAS blood level at which a health effect is known nor is there a level that predict past or future health problems.
	The blood tests results cannot be interpreted and used in patient care.	The level of PFASs can only be compared to the average national blood level for the different PFASs in the NHANES studies. This can tell a person if their blood levels are within range of the national norms or if their levels are high or low compared to the national average.
Should I be tested	Testing cholesterol and liver	Health effects associated with PFASs
for any of the health effects	function as well as uric acid level are useful in monitoring	are not specific and can be caused by many other factors.
associated with	your overall health. I can	many other factors.
PFASs exposure (cholesterol	order these laboratory test to see if your values for these	There are no guidelines to support use of these clinical test to monitor PFASs

Questions	Key Patients Messages	Key Messages Supporting Facts
Patients May Ask		
level, liver function, uric acid, etc.)?	panels are within the normal ranges. These laboratory tests will not tell us if PFASs are the cause of any abnormal levels. If these tests do show abnormal levels, we can develop a plan to address the abnormal findings.	health concerns. Suggestion to the clinician: If testing for PFASs is undertaken, patient health concerns, previous and existing health conditions identified by the differential diagnosis, age, symptoms, and physical examination should be taken into account to request these tests. Baseline blood tests for cholesterol, uric acid, thyroid function tests and liver function are well established in clinical medicine for acute and chronic conditions. If appropriate clinical laboratory monitoring is done, those laboratory tests can be considered in assessing the overall health of the patient.
How will PFASs exposure affect my child's immunizations? Will I need to get my child vaccinated again?	There is a study that looked at PFOA and PFOS immunizations and it found there is some reduction in immune response. Given this finding there was no recommendation for repeat vaccinations.	A study with 656 children has demonstrated that elevated exposures to PFOA and PFOS are associated with reduced humoral immune response to routine childhood immunizations in children aged five and seven years but there was no recommendation to immunize children again.
I have been very stressed over my concerns about PFASs exposure. How can I manage my stress?	Dealing with the uncertainty caused by an unknown health threat is stressful. There are helpful recommendations for managing stress that I will share with you.	Individuals, families and communities experiencing an environmental hazard often face anxiety and stress. This uncertainty can last for months to years resulting in chronic stress and the health impacts it brings. Managing stress will help protect patients from the harm of chronic stress.

Comment [TB(]: Section in development

Where can I get more information?

Resource	Link
ATSDR Toxic Substance Portal	http://www.atsdr.cdc.gov/substances/index.asp
ToxFAQs	http://www.atsdr.cdc.gov/toxfaqs/tf.asp?id=1116&tid=237
CDC	http://www.cdc.gov/biomonitoring/PFCs_FactSheet.html
C8 Science Panel	http://www.c8sciencepanel.org/prob_link.html
EPA	https://www.epa.gov/chemical-research/research-perfluorooctanoic-acid-pfoa-and-other-perfluorinated-chemicals-pfcs
IARC	http://www.iarc.fr/
NIEHS	https://www.niehs.nih.gov/health/materials/perflourinated_chemicals_508.pdf

Dorris, Janice V. (CDC/ONDIEH/NCEH) (CTR) From:

Sent: 5 May 2016 13:57:21 -0400

To: Bonzo, Sandra E. (CDC/ONDIEH/OD); Burgess, Paula (ATSDR/OADS); Cibulas, William (ATSDR/OA/OD); Dieser, Edward (CDC/ONDIEH/NCEH); Arias, Ileana (ATSDR/DCHI/OD); Breysse,

Patrick N. (CDC/ONDIEH/NCEH);Buchanan, Sharunda D. (CDC/ONDIEH/NCEH);Chaney, Sascha

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Sarah (CDC/ONDIEH/NCEH); Meyers, Anne (CDC/ONDIEH/NCEH); Mowbray, Amy L.

(CDC/ONDIEH/NCEH); Naik, Samantha L. (ATSDR/DTHHS/EEB); Price, Gwendolyn B.

(ATSDR/OPPE);Reddick, Rufus (CDC/ONDIEH/NCEH);Rezai, Susan (CDC/ONDIEH/NCBDDD);Roney,

Nickolette (ATSDR/DTHHS/ETB);Scheel, Christian (CDC/ONDIEH/NCEH);Scott, Michelle

(ATSDR/DCHI/SSB);Stevens, Sheila (ATSDR/DTHHS/OD);Thomas-Houston, Linda

(CDC/ONDIEH/NCEH);Touch, Ralph Jr. (ATSDR/DTHHS/OD);Wigington, Pamela S.

(CDC/ONDIEH/NCEH); Williams, Louise W. (ATSDR/OPPE); Yarbrough, Alan W.

(ATSDR/DCHI/OD); Zandueta, Socorro (ATSDR/DCHI/OD); Ekechi, Chinyere (ATSDR/OPPE/IMT); Everhart,

Cheryl (ATSDR/OA/OD); Hack, Tim (ATSDR/OPPE); Hale, David (ATSDR/OPPE); Hemphill, Kathy D.

(CDC/ONDIEH/OD); Ikeda, Robin (CDC/ONDIEH/OD); Jones, Vivian K. (CDC/ONDIEH/NCEH) (CTR); Mainzer,

Hugh (CDC/ONDIEH/NCEH); Masone, James (CDC/CGH/OD); Rich, Bill (CDC/ONDIEH/NCEH); Scheel,

Christian (CDC/ONDIEH/NCEH);Searfoss, Robert (ATSDR/OCOM);Seider, Regina

(CDC/ONDIEH/OD); Stephens, James W. (ATSDR/DTHHS/OD); Wilson, Wanda (CDC/ONDIEH/NCEH)

Subject: New EHPM Entries from 04-May (2016) Attachments: New EHPM Entries from 04-May (2016).xls

Greetings!

Attached and below, please find subject report.

Please let me know if you have any questions or concerns.

Respectfully,

Janice Dorris, JD, MBA
Program Analyst/(NAHE Contractor)
CDC, NCEH/ATSDR|Office of Policy, Planning and Evaluation
Email: vgi5@CDC.gov

Office 770-488-3419 | Fax 770-488-3385 | Mail Stop F61

Divisi on	Br anc h	Re cor d Ty pe	Type Leve 11	T yp e Le ve 12	Title	O D To pic of Int ere st	Stat us	Sta rt Da te/ Da te Re qu est Re cei ve d	Tar get Com pleti on/ Res pons e Date	Actu al Com pleti on/ Res pons e Date	Doc ume nt (Acc ess base d on eCle aran ce per miss ions)
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ATS DR/D CHI	OD	Re que st	FOI A		(16-00619 FOIA) Mallinckrodt's Facilities in St Louis Downtown Site (SLDS) and Weldon Spring in St Louis, MO	Not Ap plic abl e	Ope n	5/2 /20 16	5/23/ 2016		
ATS DR/D CHI	OD	Re que st	FOI A		(16-00648 FOIA) Contaminants from Facilities in Multnomah and Clackamas Counties, Oregon	Not Ap plic abl e	Ope n	5/3 /20 16	5/25/ 2016		
NCE H/EE HS	OD	Re que st	Revi ew/C lear		R/C Flint's Recovery Efforts	OD Aw are nes	Clo sed	5/3 /20 16	5/4/2 016	5/4/2 016	

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OD	OS	Act ivit y	Meet	W or k Gr ou p Ta sk / M ee tin g	EPA School Integrated Pest Management Initiative (IPM) Roundtable	OD Aw are nes s (but not a topi c of inte rest)	In Pro gres s	5/2 5/2 01 6	5/25/ 2016	
OD	OS	Act ivit y	Meet ing	W or k Gr ou p Ta sk /	National Advisory Environmental Health Sciences Council Meeting	OD Aw are nes s (but not a topi	In Pro gres s	5/2 4/2 01 6	5/25/ 2016	

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<u>Division</u>	Branch	Record Type	Type Level 1	Type Level 2	<u>Title</u>	O D Topic of Interest	Status	Start Date/ Date Request Received	Target Completion/ Response Date	Actual Completion/ Response Date	Document (Access based on eClearance permissions)
ATSDR/DCHI	OD	Request	FOIA		(16-00633 FOIA) Effects of Glyphosate Residue Levels	Not Applicable	Open	5/2/2016	5/23/2016		
ATSDR/DCHI	OD	Request	FOIA		(16-00619 FOIA) Mallinckrodt's Facilities in St Louis Downtown Site (SLDS) and Weldon Spring in St Louis, MO	Not Applicable	Open	5/2/2016	5/23/2016		
ATSDR/DCHI	OD	Request	FOIA		(16-00648 FOIA) Contaminants from Facilities in Multnomah and Clackamas Counties, Oregon	Not Applicable	Open	5/3/2016	5/25/2016		
NCEH/EEHS	OD	Request	Review/ Clear		R/C Flint's Recovery Efforts	OD Awareness (but not a topic of interest)	Closed	5/3/2016	5/4/2016	5/4/2016	
OD	os	Activity	Meeting	Work Group Task/ Meeting	National Toxicology Program (NTP) Executive Committee Meeting	OD Awareness (but not a topic of interest)	In Progress	5/26/2016	5/26/2016		
OD	os	Activity	Meeting	Work Group Task/ Meeting	EPA School Integrated Pest Management Initiative (IPM) Roundtable	OD Awareness (but not a topic of interest)	In Progress	5/25/2016	5/25/2016		
OD	os	Activity	Meeting	Work Group Task/ Meeting	National Advisory Environmental Health Sciences Council Meeting	OD Awareness (but not a topic of interest)	In Progress	5/24/2016	5/25/2016		
OD	os	Activity	Meeting	Work Group Task/ Meeting	National Environmental Education Foundation (NEEF) Board of Directors Meeting	OD Awareness (but not a topic of interest)	In Progress	5/18/2016	5/18/2016		

Report Generated: 5/5/2016 1:21:26 PM

From: Breysse, Patrick N. (CDC/ONDIEH/NCEH)

Sent: 6 May 2016 16:19:44 +0000

To: Day, Kristine (CDC/ONDIEH/NCCDPHP)

Subject: RE: confirming who from CDC to include RE: Call EPA/CDC on May 10

Mark Johnson needs to be on

Sent via the Samsung Galaxy S® 6 edge, an AT&T 4G LTE smartphone

----- Original message -----

From: "Day, Kristine (CDC/ONDIEH/NCCDPHP)" <knd8@cdc.gov>

Date: 5/6/2016 12:17 PM (GMT-05:00)

To: "Knutson, Donna (CDC/ONDIEH/NCEH)" <dbk2@cdc.gov>, "Breysse, Patrick N.

(CDC/ONDIEH/NCEH)" <pjb7@cdc.gov>

Subject: confirming who from CDC to include RE: Call EPA/CDC on May 10

Following up to confirm if these are the correct CDC/ATSDR attendees based on Tom's list of EPA participants below.

Pat

Donna

Pam P-B

Christian

According to EPA...

"Tom wanted to keep the meeting small. EPA participants would be:

- -Tom Burke
- -Robert Kaplan (Region 5 Regional Administrator)
- -Joel Beauvais (Acting Deputy Assistant Administrator of Water)"

From: Breysse, Patrick N. (CDC/ONDIEH/NCEH)

Sent: 6 May 2016 16:19:44 +0000

To: Day, Kristine (CDC/ONDIEH/NCCDPHP)

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Date: 5/6/2016 12:17 PM (GMT-05:00)

To: "Knutson, Donna (CDC/ONDIEH/NCEH)" <dbk2@cdc.gov>, "Breysse, Patrick N.

(CDC/ONDIEH/NCEH)" <pjb7@cdc.gov>

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Christian

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- -Tom Burke
- -Robert Kaplan (Region 5 Regional Administrator)
- -Joel Beauvais (Acting Deputy Assistant Administrator of Water)"

From: Breysse, Patrick N. (CDC/ONDIEH/NCEH)

Sent: 2 May 2016 20:09:31 +0000

To: 'Clancy, Carolyn'

Subject: RE: Editing proposed new rules for GW Vet Brain Cancer and Camp

Lejeune

Thanks got it ...

Pat

----Original Message----

From: Clancy, Carolyn [mailto:Carolyn.Clancy@ya.gov]

Sent: Monday, May 02, 2016 4:08 PM

To: Breysse, Patrick N. (CDC/ONDIEH/NCEH) <pjb7@cdc.gov>

Subject: FW: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

A bit more

Carolyn M. Clancy, MD Deputy Under Secretary for Health, Organizational Excellence Department of Veterans Affairs 810 Vermont Ave, NW Washington, DC 20420 202-461-0370

From: "Irons, Terra" < Terra.Irons@va.gov < mailto: Terra.Irons@va.gov >>

Date: Monday, May 2, 2016 at 8:49 AM

To: Department of Veterans Affairs <carolyn.clancy@va.gov<mailto:carolyn.clancy@va.gov>>, "Flohr,

Brad, VBAVACO"
 brad.flohr@va.gov<mailto:brad.flohr@va.gov>>, Ralph Ericsson

<Ralph.erickson@va.gov<mailto:Ralph.erickson@va.gov>>

Cc: "Russo, Bill" <Bill.Russo@va.gov<mailto:Bill.Russo@va.gov>>, "Lezama, Nicholas G."

<Nicholas.Lezama@va.gov<mailto:Nicholas.Lezama@va.gov>>, "Kalasinsky, Victor"

<Victor.Kalasinsky@va.gov<mailto:Victor.Kalasinsky@va.gov>>, "Dursa, Erin"

<Erin.Dursa2@va.gov<mailto:Erin.Dursa2@va.gov>>, "Barth, Shannon K."

<Shannon.Barth@va.gov<mailto:Shannon.Barth@va.gov>>, "Schneiderman, Aaron"

<a>Aaron.Schneiderman@va.gov<mailto:Aaron.Schneiderman@va.gov>>>

Subject: Re: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Yes ma'am, this is the case. We were instructed to make edits to the scientific reasoning based only on literature and assessments that have been published.

Terra

Sent from my BlackBerry 10 smartphone on the Verizon Wireless 4G LTE network.

From: Clancy, Carolyn

Sent: Monday, May 2, 2016 8:34 AM

To: Irons, Terra; Flohr, Brad, VBAVACO; Erickson, Ralph L.

Cc: Russo, Bill; Lezama, Nicholas G.; Kalasinsky, Victor; Dursa, Erin; Barth, Shannon K.; Schneiderman,

Aaron

Subject: Re: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Thank you

If you could confirm with them that this is the case I will get that feedback to ATSDR (the bottom line, if they want to be science? white hats? who impact policy, they need a new work process(

Carolyn M. Clancy, MD
Deputy Under Secretary for Health,
Organizational Excellence
Department of Veterans Affairs
810 Vermont Ave, NW
Washington, DC 20420
202-461-0370

From: "Irons, Terra" < Terra.Irons@va.gov < mailto: Terra.Irons@va.gov >>

Date: Monday, May 2, 2016 at 8:31 AM

To: Department of Veterans Affairs <carolyn.clancy@va.gov<mailto:carolyn.clancy@va.gov>>, "Flohr,

Brad, VBAVACO"

brad.flohr@va.gov<mailto:brad.flohr@va.gov>>, Ralph Ericsson

<Ralph.erickson@va.gov<mailto:Ralph.erickson@va.gov>>

Cc: "Russo, Bill" <Bill.Russo@va.gov<mailto:Bill.Russo@va.gov>>, "Lezama, Nicholas G."

<Nicholas.Lezama@va.gov<mailto:Nicholas.Lezama@va.gov>>, "Kalasinsky, Victor"

<Victor.Kalasinsky@va.gov<mailto:Victor.Kalasinsky@va.gov>>, "Dursa, Erin"

<Erin.Dursa2@va.gov<mailto:Erin.Dursa2@va.gov>>, "Barth, Shannon K."

<Shannon.Barth@va.gov<mailto:Shannon.Barth@va.gov>>, "Schneiderman, Aaron"

Aaron.Schneiderman@va.gov>

Subject: Re: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Dr. Clancy,

I think they have seen it. The problem is that they would ideally want to reference the document, but it has not been peer reviewed or published; therefore, they don't want to mention it in the regulation at all. Terra

Sent from my BlackBerry 10 smartphone on the Verizon Wireless 4G LTE network.

From: Clancy, Carolyn

Sent: Sunday, May 1, 2016 10:53 AM

To: Flohr, Brad, VBAVACO; Erickson, Ralph L.; Irons, Terra

Cc: Russo, Bill; Lezama, Nicholas G.; Kalasinsky, Victor; Dursa, Erin; Barth, Shannon K.; Schneiderman,

Aaron

Subject: Re: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Re CLJ? I spoke with Pat Breysse who thought (and will verify) that we can shared their document for the purpose of establishing draft regulations, i.e., share with OMB. He asked if this would be sufficient from their perspective? (I know some entities would consider a technically un-reviewed document to be ?gray? literature)

Can you let me know??

Carolyn M. Clancy, MD Deputy Under Secretary for Health, Organizational Excellence Department of Veterans Affairs 810 Vermont Ave, NW Washington, DC 20420 202-461-0370

From: "Flohr, Brad, VBAVACO"
 brad.flohr@va.gov<mailto:brad.flohr@va.gov>>

Date: Wednesday, April 27, 2016 at 8:19 AM

To: Ralph Ericsson <Ralph.erickson@va.gov<mailto:Ralph.erickson@va.gov>>, "Irons, Terra"

<Terra.Irons@va.gov<mailto:Terra.Irons@va.gov>>

Cc: "Russo, Bill" <Bill.Russo@va.gov<mailto:Bill.Russo@va.gov>>, "Lezama, Nicholas G."

<Nicholas.Lezama@va.gov<mailto:Nicholas.Lezama@va.gov>>>, Department of Veterans Affairs

<carolyn.clancy@va.gov<mailto:carolyn.clancy@va.gov>>, "Kalasinsky, Victor"

<Victor.Kalasinsky@va.gov<mailto:Victor.Kalasinsky@va.gov>>, "Dursa, Erin"

<Erin.Dursa2@va.gov<mailto:Erin.Dursa2@va.gov>>, "Barth, Shannon K."

<Shannon.Barth@va.gov<mailto:Shannon.Barth@va.gov>>, "Schneiderman, Aaron"

<a>Aaron.Schneiderman@va.gov<mailto:Aaron.Schneiderman@va.gov>>

Subject: RE: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Thanks for this, Loren and Terra.

Brad

From: Erickson, Ralph L.

Sent: Wednesday, April 27, 2016 4:12 AM

To: Irons, Terra

Cc: Flohr, Brad, VBAVACO; Russo, Bill; Lezama, Nicholas G.; Clancy, Carolyn; Kalasinsky, Victor;

Dursa, Erin; Barth, Shannon K.; Schneiderman, Aaron

Subject: Editing proposed new rules for GW Vet Brain Cancer and Camp Lejeune

Terra:

While I?m out-of-the-office I ask that you get a start on helping edit the science portion of the new proposed rules we discussed on Monday afternoon. (Thanks again for dialing in!) If I leave anything out in this message, I?m sure that either Brad Flohr or Bill Russo will add as appropriate. In a prior email I shared with you the two draft rules documents that were discussed.

Brain Cancer: The key elements that need to be added or clarified here are references to prior published work that showed an increase in brain cancer among GW Vets, but NOT an increase in any other cancer (e.g. Barth et. al). We should also be sure that we mention that we extended our review of these mortality data into more recent years. You might also ask Vic Kalasinsky or go to Gulf Link to get a map showing the extent of the plume / oil well fires smoke across this region in 1991. N.B. Because SecVA has not announced this proposed presumption, it will not be announced at the RAC by any of us.

Camp Lejeune: The big issue here is that ATSDR has never posted their 67 page document to the public NOR have they had it peer-reviewed. As you heard on the phone, OMB will have no part of referencing a phantom document! For that reason, we will need to scrub the science section of this proposed rule (for the 9 conditions) and reference only the published peer-reviewed literature that supported our TWG conclusions. We should also mention IARC, NTP, EPA, etc? as their classifications carry weight. The ATSDR water study is also important to mention as it was the starting point for exposure assessment. In essence, we will need to briefly explain that we started with reviewing the evidence for the 15 conditions mentioned in the 2012 CL law? reviewed all of the literature, especially what was new since the 2009 NRC report? and decided that certain disease conditions met our standard (preponderance of the evidence) for inclusion in new presumptions, while other conditions did not. The addition of Parkinson?s disease was based on the recent publication of the IOM?s report reviewing our clinical guidelines. We?ll need to find a way to reference IARC or something to support the inclusion of bladder cancer.

I will be back by at my house by mid-day on Tuesday and can then help review where we stand with the edits. Thanks!

Brad and Bill: Do you have anything else to add from your notes for the science edits we need to make on these two?

Dr. Clancy: I?ve included you on the CC line for your situational awareness and because neither Brad nor I will be able to attend the CoSVA?s meeting on Thursday to update him on our progress.

ATB, Loren From: Hatcher, Michael (ATSDR/DTHHS/EMB)

Sent: 6 May 2016 13:50:28 -0400

To: Stephens, James W. (ATSDR/DTHHS/OD)
Subject: RE: Updated version of clinician fact sheet

Attachments: Physician PFASs Counseling Fact Sheet Draft May 6th review.docx

Jimmy,

This is near to complete. We still are looking for the health effects from PFHxS and PFNA to add. Have not located the spot Selene mentioned yet. Also we want to work on the stress topic more. I will send you some work that was done years back on Katrina.

How do you want to connect and talk about these?



Michael T. Hatcher, DrPH
Chief, Environmental Medicine Branch
Division of Toxicology and Human Health Sciences
Agency for Toxic Substances and Disease Registry
4770 Buford Highway, NE (Mail Stop F-57)
Atlanta, GA 30341-3724
770-488-3489 Voice
770-488-4178 Fax
MHatcher@cdc.gov
See our educational resources at:
http://www.atsdr.cdc.gov/emes/index.html

From: Stephens, James W. (ATSDR/DTHHS/OD)

Sent: Friday, May 06, 2016 12:57 PM

To: Hatcher, Michael (ATSDR/DTHHS/EMB) <mth1@cdc.gov>

Subject: RE: Updated version of clinician fact sheet

Awesome. Thanks!

From: Hatcher, Michael (ATSDR/DTHHS/EMB)

Sent: Friday, May 06, 2016 12:56 PM

To: Stephens, James W. (ATSDR/DTHHS/OD) < jws9@cdc.gov>

Subject: RE: Updated version of clinician fact sheet

We are almost there. We have reworked a lot of the document to consider community and patient concerns.

Michael

From: Stephens, James W. (ATSDR/DTHHS/OD)

Sent: Friday, May 06, 2016 12:54 PM

To: Hatcher, Michael (ATSDR/DTHHS/EMB) < mth1@cdc.gov>

Subject: Updated version of clinician fact sheet

Are we going to have an updated version of the clinician fact sheet today in time to discuss it with John Decker? I'd like to have a chance to go through it with him before the weekend if possible.

An Overview of Perfluoroalkyl and Polyfluoroalkyl Substances for Clinicians Responding to Patient Exposure Concerns

Introduction

The purpose of this fact sheet is to aid physicians and other clinicians with patient consultations on per- and polyfluoroalkyl substances (PFASs). It highlights what PFASs are, specifies which chemicals fall into this category of substances, identifies health effects associated with exposure to various PFASs, and suggests how to address patient concerns about potential PFASs exposure.

What are PFASs?

Per- and polyfluorinated alkyl substances (PFASs), sometimes known as PFCs are synthetic chemicals and do not occur naturally in the environment. There are many different types of PFASs such as perfluorocarboxylic acids (PFOAs, sometimes called C8, and PFNAs) and perfluorosulfonates (PFOS and PFHxS). These chemicals have been used since the 1950s in many commercial applications, as well as in industrial and consumer products because of their surfactant and stain- and water-repellant properties. Specifically, these chemicals have been used in adhesives, cosmetics, cleaning products, and firefighting foams.

Why are PFASs a possible health concern?

According to the US. Environmental Protection Agency (EPA), PFASs are considered emerging contaminants. An "emerging contaminant" is a chemical or material that is characterized by a perceived, potential, or real threat to human health or the environment or by a lack of published health standards.

PFOS and PFOA are two of the most studied PFASs. Exposure to PFOA and PFOS is widespread and global. PFASs are extremely persistent in the environment and resistant to typical environmental degradation processes. The pathway for dispersion of these chemicals appears to be long-range atmospheric and oceanic currents transport. Several PFASs and their potential precursors are ubiquitous in the urban environment. Some long-chain PFASs bioaccumulate in animals and can enter the human food chain.

PFOS and PFOA also persist in the human body and are eliminated slowly. Both PFOS and PFOA can be found in the blood, urine, breast milk and in umbilical cord blood.

PFOS and PFOA pose potential adverse effects for human health given their potential toxicity, mobility and bioaccumulation potential.

What are the main sources of exposure to PFASs?

For the general population, ingestion of PFASs is considered the major human exposure pathway. The major types of human exposure sources for PFASs, include:

- Drinking contaminated water
- Ingesting food that may contain high levels of PFASs, such as certain types of fish and shellfish
- Ingesting food contaminated by packaging materials containing PFASs (e.g., popcorn bags, fast food containers, and pizza boxes)

- Hand-to-mouth transfer from surfaces treated with PFAS-containing stain protectants, such as carpets, which is thought to be most significant for infants and toddlers
- Workers in industries or activities that manufacture, manipulate or use products containing PFASs may be exposed to higher levels than the general population.

What are other low level exposure sources?

Individuals can also be exposed by breathing air that contains dust contaminated with PFASs (from soil, carpets, upholstery, clothing, etc.), or from certain fabric sprays containing this substance.

Dermal exposure is a minor exposure pathway. Dermal absorption is slow and does not result in significant absorption.

What are the potential PFASs exposure risks to fetuses and children?

Recent research evaluating possible health effects to fetuses from PFAS exposures have shown that developing fetuses can be exposed to PFASs when umbilical cord blood from their mothers cross the placenta during pregnancy. It is important to note that different PFASs have varying levels of permeability to the placental barrier.

Newborns can be exposed to PFASs through breast milk. Older children may be exposed to PFASs through food and water, similar to adults. In addition, young children have a higher risk of exposure to PFASs from carpet cleaners and similar products, largely due to time spent lying and crawling on floors in their early years.

How long do PFASs remain in the body?

Different PFASs have different half-lives. PFASs usually persist in the blood more than 1000 days. PFOS and PFOA have half-lives in humans ranging from 2 to 9 years.

What are exposure limits for PFASs in drinking water?

The Environmental Protection Agency (EPA) has determined that the concentration of PFOA and PFOS in drinking water, either individually or combined, should not be greater than 0.07 parts per billion. If this concentration is exceeded, EPA advises that an alternative drinking source should be used.

What are PFASs levels in the American population?

Most people in the United States and in other industrialized countries have measurable amounts of PFASs in their blood.

The National Health and Nutrition Examination Survey (NHANES) is a program of studies conducted by the Center for Diseases Control and Prevention (CDC) to assess the health and nutritional status of adults and children in the United States. NHANES (2011–2012) measured the concentration of PFASs in the blood of the general U.S. population (12 years of age and older). The average blood levels found were as follows:

• PFOA: 2.1 parts per billion, with 95% of the general population at or below 5.7 parts per billion

- PFOS: 6.3 parts per billion, with 95% of the general population at or below 21.7 parts per billion
- PFHxS: 1.3 parts per billion, with 95% of the general population at or below 5.4 parts per billion

Based on data collected from previous NHANES survey years, levels of PFASs are decreasing in the blood of the general population.

How can PFASs potentially affect human health?

There is limited evidence about the health effects on humans from PFASs. There are still important research gaps about these chemicals that need to be addressed but the toxicity in animals, mobility, persistence, and bioaccumulation of these substances in the environment raise concerns about possible human health effects. Below are summaries of studies in animals and humans.

Animal Studies:

Adverse health effects have been demonstrated in animal studies, but these occurred at levels higher than those found in people. The main health effects observed were: increase in liver weight, changes in spleen, thymus, and developmental endpoints. Adenomas of the liver, testis, and pancreas were observed in rats exposed to PFOA. Liver adenomas were also found in those rats exposed to PFOS. Toxicological studies give us important clues, but the exact link between the health effects of PFASs on animals and how that relates to human health has not been established yet.

Human Studies:

C8 Health Study

A large epidemiological study, the C8-science panel, included 69,000 persons > 18 years of age. It found probable links between elevated PFOA blood levels and the following health outcomes: high cholesterol (hypercholesteremia), ulcerative colitis, thyroid diseases, testicular cancer, kidney cancer, preeclampsia, and elevated blood pressure during pregnancy. The reason for this study was to determine whether a probable link exists between PFOA and any human disease involving releases of the chemical known as PFOA from a West Virginia facility. Inhabitants in the surrounding area of these releases showed 500-times elevated PFOA-concentrations in blood compared to the general population (NHANSE).

Overview of Human Studies

Cholesterol	Some epidemiological studies demonstrated statistically significant associations between serum PFOA and PFOS levels and total cholesterol in:
	 workers exposed to PFASs, and residents of communities with high levels of PFOA in the
	drinking water compared to NHANES data for the U.S.

	general population, Other studies have found no association between PFASs exposures and the total cholesterol endpoint.
Uric acid	Several studies have evaluated the possible association between serum PFOA and serum PFOS levels and uric acid. Significant associations were found between serum PFOA and uric acid levels at all evaluated exposure levels.
Liver effects	A number of human studies have used liver enzymes as biomarkers of possible liver effects. In occupational studies, no associations between liver enzymes and serum PFOA or PFOS levels were consistently found. A study of highly exposed residents demonstrated significant associations but the increase in liver enzymes was small and not considered to be biologically significant.
Cancer	The International Agency for Cancer Research (IARC) has classified PFOA as possibly carcinogenic and EPA has concluded that both PFOA and PFOS are suggestive carcinogenic. Some studies have found increases in prostate, kidney, and testicular cancers in workers exposed to PFASs and people living near a PFOA facility. Other study findings are not consistent and most did not control for other potential factors including smoking. Additional research is needed to clarify this association.

What are potential health effects from prenatal PFASs exposure to fetuses?

There is evidence to suggest that high serum PFOA or PFOS levels may possibly be associated with lower birth weights. Although some studies have found this association, the decreases in birth weight were small and were not considered clinically significant.

Another study found that a 1-ng/mL increase in prenatal PFOS and PFOA levels that were associated with a 5.00 gram reduction in birth weight for PFOS and 14.72 gram reductions in birth weight for PFOA (Verner et.al. DOI:10.1289/ehp.1408837).

While the lower birth weight is not seen as clinically significant, any decrease in birthweight is a concern warranting further study.

Patient Questions and Key Message Answers:

As a clinician, you know careful listening and patient engagement is critical for ensuring quality patient care, especially when health concerns are raised. Perhaps the most difficult challenge in speaking with patients about their health concerns is addressing uncertainty. If your patient has concerns about an exposure to PFASs, you may face the challenge of helping your patient cope with the uncertainty of potential health effects from a PFAS exposure.

Based on feedback from clinicians and from individuals who have spoken to their health care provider about their PFAS exposure concerns, a set of patient questions have been identified. To assist you in speaking with your patients about their concerns, key messages and supporting facts needed to answer the anticipated patient questions are provided in the table below for your use.

Questions	Key Patients Messages	Key Messages Supporting Facts		
Patients May Ask				
What should I do, there are high levels of PFASs in	If the water you use is above the safety limits EPA has set, you should find an alternative	Potential health effects are associated with exposure to PHASs.		
my water?	water source for drinking, food preparation, cooking, brushing teeth, and other activity that might result in you swallowing the contaminated water.	EPA has established a health advisory PFOA and PFOS drinking water concentrations level at 0.07 parts per billion or greater. PFOA and PFOS are additive. If PFOA and PFOS at individual or combined concentrations exceed 0.07 parts per billion, a new drinking water source is advised. Normal processes of improving home water quality, do not remove any of the PFASs. Most home water filters and boiling water will not remove PFASs from a drinking water source. If bottle water is the alternative selected, your patient should be advised to select bottled water that lists use of reverse osmosis on its label. There are no regulations setting limits on the level of PFASs allowed in bottled water. If water bottlers draw water from a PFAS contaminated source that bottled water would not be a good alternative. Reverse osmosis processing would eliminate contaminants like PFASs.		
Is it safe for me to	Breastfeeding is associated	The part of the text of the state of the part of the state of the stat		
breastfeed my baby?	with numerous health benefits for infants and mothers.	broad and compelling advantages of breastfeeding for infants, mothers, families, and society.		
	At this time, it is recommend that you as a nursing mother continue to breastfeeding	Some of the many benefits include immunologic advantages, lower obesity rates, and greater cognitive		

Questions Patients May Ask	Key Patients Messages	Key Messages Supporting Facts
ratients may Ask	your baby. The science on the health effects of PFASs for mothers and babies is growing and this guidance could change. However, given the scientific understanding at this time, the benefits of breastfeeding your baby outweigh those of not breastfeeding.	development for the infant as well as a variety of health advantages for the lactating mother. Even though a number of environmental pollutants readily pass to the infant through human milk, the advantages of breastfeeding continue to greatly outweigh the potential risks in nearly every circumstance.
Could my current health problem be caused by exposure to PFASs?	Positive association: (the following have a positive association) Thyroid disease High cholesterol Ulcerative colitis Testicular cancer Kidney cancer Pregnancy-induced Hypertension Liver effects High uric acid Your health problem could potentially associated with exposure to PFASs. However, current research cannot absolutely prove PFASs causes this illness. OR Negative association: Your health problem has not been associated with exposure to PFASs.	Key supporting facts on health effects for each of these associated diseases can be found in this fact sheet on page 3 "How can PFASs potentially affect human health?" Suggestion to the clinician: If a patient presents with concerns that a health issue is connected to PFASs exposure, it is also appropriate to discuss the patient's concerns and perform a thorough health history and physical exam relative to any symptoms reported.

Questions Patients May Ask	Key Patients Messages	Key Messages Supporting Facts		
Are there future health problems	Studies have suggested an association between PFASs	Studies in humans and animals are inconsistent and inconclusive but study		
that might occur because of PFASs exposure?	and certain health effects but they are not definitive. No current studies predict future health effects after exposure to PFASs.	findings suggest that certain PFASs affect a variety of possible endpoints. Confirmatory research is needed to better understand PFASs health risks.		
	However we can continue to review new findings on PFASs and continue to evaluate your health status.			
Should I get a blood test for PFASs?	Measuring PFASs in your blood is not necessary. A blood test has no value in diagnosis, treatment, or prognosis of a future health effect for a patient.	There is currently no established PFAS blood level at which a health effect is known nor is there a level that predicts past or future health problems.		
What do my PFASs blood tests results mean?	The blood test for PFASs can only tell us the levels of specific PFASs in your body at the time you were tested.	There is currently no established PFAS blood level at which a health effect is known nor is there a level that predict past or future health problems.		
	The blood tests results cannot be interpreted and used in patient care.	The level of PFASs can only be compared to the average national blood level for the different PFASs in the NHANES studies. This can tell a person if their blood levels are within range of the national norms or if their levels are high or low compared to the national average.		
Should I be tested	Testing cholesterol and liver	Health effects associated with PFASs		
for any of the health effects	function as well as uric acid level are useful in monitoring	are not specific and can be caused by many other factors.		
associated with	your overall health. I can	many other factors.		
PFASs exposure (cholesterol	order these laboratory test to see if your values for these	There are no guidelines to support use of these clinical test to monitor PFASs		

Questions	Key Patients Messages	Key Messages Supporting Facts		
Patients May Ask				
level, liver function, uric acid, etc.)?	panels are within the normal ranges. These laboratory tests will not tell us if PFASs are the cause of any abnormal levels. If these tests do show abnormal levels, we can develop a plan to address the abnormal findings.	health concerns. Suggestion to the clinician: If testing for PFASs is undertaken, patient health concerns, previous and existing health conditions identified by the differential diagnosis, age, symptoms, and physical examination should be taken into account to request these tests. Baseline blood tests for cholesterol, uric acid, thyroid function tests and liver function are well established in clinical medicine for acute and chronic conditions. If appropriate clinical laboratory monitoring is done, those laboratory tests can be considered in assessing the overall health of the patient.		
How will PFASs exposure affect my child's immunizations? Will I need to get my child vaccinated again?	There is a study that looked at PFOA and PFOS immunizations and it found there is some reduction in immune response. Given this finding there was no recommendation for repeat vaccinations.	A study with 656 children has demonstrated that elevated exposures to PFOA and PFOS are associated with reduced humoral immune response to routine childhood immunizations in children aged five and seven years but there was no recommendation to immunize children again.		
I have been very stressed over my concerns about PFASs exposure. How can I manage my stress?	Dealing with the uncertainty caused by an unknown health threat is stressful. There are helpful recommendations for managing stress that I will share with you.	Individuals, families and communities experiencing an environmental hazard often face anxiety and stress. This uncertainty can last for months to years resulting in chronic stress and the health impacts it brings. Managing stress will help protect patients from the harm of chronic stress.		

Comment [TB(]: Section in development

Where can I get more information?

Resource	Link
ATSDR Toxic Substance Portal	http://www.atsdr.cdc.gov/substances/index.asp
ToxFAQs	http://www.atsdr.cdc.gov/toxfaqs/tf.asp?id=1116&tid=237
CDC	http://www.cdc.gov/biomonitoring/PFCs_FactSheet.html
C8 Science Panel http://www.c8sciencepanel.org/prob_link.html	
EPA	https://www.epa.gov/chemical-research/research-perfluorooctanoic-acid-pfoa-and-other-perfluorinated-chemicals-pfcs
IARC	http://www.iarc.fr/
NIEHS	https://www.niehs.nih.gov/health/materials/perflourinated_chemicals_508.pdf

 From:
 Masone, James (ATSDR/OPPE)

 Sent:
 5 May 2016 15:04:59 -0400

To: Breysse, Patrick N. (CDC/ONDIEH/NCEH); Cibulas, William (ATSDR/OA/OD); Day,

Kristine (CDC/ONDIEH/NCCDPHP); Decker, John A. (CDC/ONDIEH/NCEH); Hale, David

(ATSDR/OPPE);Knutson, Donna (CDC/ONDIEH/NCEH);Masone, James (CDC/CGH/OD);Morello, Monica

(ATSDR/OPPE/BPET); Protzel Berman, Pamela (CDC/ONDIEH/NCEH); Scheel, Christian

(CDC/ONDIEH/NCEH);Stevens, Sheila (ATSDR/DTHHS/OD);Wolfe, Herbert (CDC/ONDIEH/NCEH)

Subject: Weekly Management Report and Calendar of Events dated 5 May (Version 1)

Attachments: Must See Report 2016 05 05.docx, Calendar 2016 05 05.docx

Greetings!

Attached please find subject products. These are the iterations that we will use in tomorrow's 9:30 meeting.

I will distribute hard copies to all in building 106 (sorry, Dr. Decker. I'll have a hard copy for you in the morning.)

I look forward to tomorrow's discussion. If anything needs to be changed, please let me know by COB tomorrow so that the updates will be included in the version that goes to Division leadership on Monday morning.

Respectfully,

Jim

OD/OC

Media Inquiries

Independent Journalist for Nation Magazine: Phosphine Gas Exposure

(Closed)

A journalist in the Washington, DC area is working on an article that involves the question of phosphine gas; specifically, what compounds phosphine gas would break down into after entering the human body and how phosphine inhalation could be detected by tests. Response: Phosphine is rapidly oxidized to phosphite and hypophosphite once entering the human body. These compounds are excreted in the urine. There are no specific blood or urine tests for phosphine itself. If a severe exposure has occurred, blood and urine analyses and other tests may also show whether the brain, lungs, heart, liver, or kidneys have been damaged.

WIRED: Elk River spill WV

(Closed)

Fact checker Madison Kotack asked for rough estimates of cleanup and/or litigation costs for the Elk River spill. Response: CDC OADC contacted reporter to see if she can extend her deadline. Closed due to inactivity; i.e., have not heard back from OADC that the reporter is still pursuing the information.

St. Louis Public Radio: TCE in caves

(Response due: 4 May)

Reporter from the Health & Science Desk, Durrie Bouscaren, sent questions related to TCE concentrations in a cave and the levels' potential health impact. Staff from OC/DCHI/Region 7 and DTHHS are working to get the answers to the reporter's questions.

Star Tribune, Minneapolis, MN: Reilly Tar & Chemical

(Response due: 4 May)

Reporter John Reinan asked six specific questions. Please refer to the EHPM entry for the specific questions.

Portsmouth Herald: Pease NH

(Closed)

Reporter Jeff McMenemy inquired about the agenda for the upcoming CAP meeting. Response: We sent the final agenda on 29 Apr.



OD/OPPE

FOIAs

Mallinckrodt's Facilities in St Louis Downtown Site (SLDS) and Weldon Spring in St Louis, MO

(Requester: Community/Local, Lawyer, Jaclyn L. Dunnavant – Response due: 23 May) The FOIA office wants us to respond to:

- Item 6 related to all documents concerning any health impact assessments, health studies, risk assessments, occurrences of cancer for workers and the communities surrounding the sites.
- Item 10 concerns CDC/ATSDR reports on the processing, enriching, storage, handling and movement of radioactive waste at the SLDS, Weldon Spring, SLAPS, Latty, HISS, Futura and VPs. This includes all drafts and final reports.
- Item 11 is any and all documents related to the 1993 and 2010 CDC/ATSDR public health assessments and any and all dose reconstruction documentation.

Effects of Glyphosate Residue Levels

(Requester: Community/Local, Lawyer, Kim E. Richman – Response due: 23 May)

The requester is asking for any and all information concerning the effects of glyphosate residue levels. The request is very broad.

Contaminants from Facilities in Multnomah and Clackamas Counties, Oregon

(Requester: Community/Local, Lawyer, Daniel Mensher -- Response due: 25 May)

The requester is asking for documents relating to CDC and the response to emissions of arsenic, cadmium, chromium, lead, nickel, manganese, polychlorinated biphenyl (PCB) and other hazardous contaminants from Precision Castparts Corp including PCC Structurals. This work is related to the Oregon Health Authority and other state and local officials. The requester is also asking for work from the EIS officer who is managing the follow-up of urine cadmium laboratory results above the limit of detection.

Recent Comments/Updates

Collegiate Leaders in Environmental Health Summer Internship Program

Twelve students have been selected from an application pool of 350; all will be in Atlanta. GEH Summer internship Program

Seven students have been selected from an application pool of 150; all will be in Atlanta.



OD/OS

Activities – Events

National Environmental Education Foundation (NEEF) Board of Directors Meeting (18 May)

Dr. William Cibulas will be attending this meeting in Washington DC. NEEF provides knowledge in all segments of the American public by leveraging private support for the agency's mission. Dr. Cibulas is the CDC/ATSDR Ex-Officio Member to the NEEF.

National Advisory Environmental Health Sciences Council Meeting

(24 May)

Dr. William Cibulas will be participating in this meeting in Research Triangle Park, NC. Due to the short notice, Dr. Cibulas will be participating by conference call. Dr. Cibulas has recently been named as Ex-Officio member of the National Advisory Environmental Health Sciences Council.

EPA School Integrated Pest Management Initiative (IPM) Roundtable (25 May)

Dr. William Cibulas will be attending this event in Washington DC on behalf of Dr. Breysse. National Toxicology Program (NTP) Executive Committee Meeting (26 May)

Dr. William Cibulas will be attending this meeting in Washington, DC on behalf of Dr. Patrick Breysse NCEH/ATSDR.

NCEH/EEHS

Requests

Flint's Recovery Efforts

(Review/Clear – Requester: Senator Gary S. Peters – Closed)

Request to further facilitate Flint's recovery efforts. Response: Concur with comments.

Activities – Services

Review of state Medicaid waiver requests related to universal blood lead testing

This entry captures our review of state requests per the 30 Mar 2012 guide for states interested in transitioning from universal blood lead screening for Medicaid-eligible children to targeted blood lead screening for Medicaid-eligible children. States submit requests to the Center for Medicaid and Medicare Services (CMS). CMS reviews and sends requests to internal reviewers and to CDC. Once CDC and CMS agree that a state has provided sufficient information and evidence to support their request, CMS will issue a letter advising the state that they are no longer required to universally screen all Medicaid-eligible children for lead poisoning. CMS and CDC will follow up with states to ensure that the evaluations the state performs in support of this process continue to show that the children at highest risk of lead poisoning are being screened.



Environmental Health Portfolio Management

Outbreak: Disney Wonder (Disney Cruise Line)

Voyage Dates: 27 Apr to 1 May

Number of passengers who have reported being ill: 131 of 2,680 (4.9%)

Number of crew who have reported being ill: 14 of 991 (1.4%)

This outbreak met VSP's AGE case definition. CAPT Jaret Ames responded to the ship in Miami on 1 May to conduct a targeted environmental health assessment and monitoring the sanitation procedures taking place prior to the embarkation of new passengers. As is VSP's standard practice following an outbreak, VSP will continue to receive daily case count updates for at least the first 72 hours of the new voyage to determine if there was any carryover of illness from one voyage into the next.

NCEH/EHHE

Activities - New Products

Utah Tracking Program Success Stories

(Preparing for Release – Planned release date: 22 Apr)

Link to Document

Brief stories about the success of CDC-Funded Environmental Public Health Tracking Program in Utah

Severe Illness Associated with Reported Use of Synthetic Cannabinoids Mississippi, April 2015 (Presentation, Cleared, Preparing for Release – Planned release date: 2 May)

Link to Document

Presentation for EIS conference (2016).

Measure for Measure Act I: Phase I Asthma Performance Measures

(Preparing for Release -- Planned release date: 6 May)

Link to Document

This report summarizes the performance measure information submitted by state asthma programs in October 2015 to the National Asthma Control Program and represents the first year of activity aggregated across the 23 funded state programs.

Mold, Allergy, and Asthma

(Presentation, Cleared – Planned release date: 10 May)

Link to Document

An overview of evidence for mold & dampness in homes being associated with asthma development and exacerbation.

Economic Evidence for Selected Asthma Control Strategies (slideset)

(Presentation, Cleared, Preparing for Release – Planned release date: 13 May)

Link to Document

This slideset presents economic evidence for selected asthma control strategies. The primary purpose of this document is for dissemination to state asthma program grantees and other



Environmental Health Portfolio Management

partners as a resource document; this document was not created for a specific conference presentation.

Southeast asthma summit (Federal highlights)

(Presentation, Cleared, Preparing for Release – Planned release date: 16 May)

Link to Document

An overview of CDC's initiatives for in-home education, environmental assessments and interventions to reduce asthma burden.



NCEH/ATSDR CALENDAR (5 May 2016) Page 1

Red=Public Meeting; Green=Dr. Breysse Event; Purple=Topic of Interest Event; Aqua=Site Visit; Black=Conferences/Meetings of Interest (n) = Number of related requests or activities

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2 Director's Participation: EIS Conference 2-5 May Calendar Event: 10th National Monitoring Conference: Working Together for Clean Water 2-6 May	3 Pease Community Assistance Panel (CAP) meeting	4	5 APHA - National Environmental Health Partnership Council Webinar - The Value of Environmental Health Services	6	7
May 2016		9 <u>Director's</u> Participation: Conference of Environmental Health Directors 9-11 May	10	11	12 Asthma and Allergy Day Capitol Hill Congressional Briefing	13	14
	15	16 American Thoracic Society Annual Meeting	17	18 National Environmental Education Foundation (NEEF) Board of Directors Meeting	19 How Plants Detoxify and Accumulate Toxic Metals: Implications for Human Exposure	20	Director's Participation : American Industrial Hygiene Conference & Exposition (AIHce) 21-26 May
	22	23	24 National Advisory Environmental Health Sciences Council Meeting 24-25 May	25 EPA School Integrated Pest Management Initiative (IPM) Roundtable	26 National Toxicology Program (NTP) Executive Committee Meeting	27	28
	29	30	31	1	2 Director's Participation: National Institute Environmental Health Sciences (NIEHS) Annual Center Retreat 2-3 Jun	3	4
Jun 2016	5 American Society of Mass Spectromet ry (ASMS) Conf. 5-9 Jun		7 Director's Participation: State Environmental Health Directors 7-10 Jun	8 One Water Summit (Local Event) 8-10 Jun	9	10	11



NCEH/ATSDR CALENDAR (5 May 2016) Page 2

Red=Public Meeting; Green=Dr. Breysse Event; Purple=Topic of Interest Event; Aqua=Site Visit; Black=Conferences/Meetings of Interest (n) = Number of related requests or activities

Sun	Mon	Tue	Wed	Thu	Fri	Sat
12	13 Director's Participation: National Environmental Health Association Annual Educational Conference and HUD Healthy Homes Conference 13-16 Jun	14	15	16	17	18
19 2016 Council of State and Territorial Epidemiolo gists Annual Conf. 19-23 Jun	20	21	22	23	24	25
26	27	28 NCEH/ATSDR Board of Scientific Counselors Spring 2016 Meeting 28-29 Jun	29	30	1	2