The Arapahoe County Board of County Commissioners typically holds weekly Study Sessions on Monday and Tuesday. Study Sessions (except for Executive Sessions) are open to the public and items for discussion are included on this agenda. Agendas (except for Executive Sessions agendas) are available through the Commissioners’ Office or through the County’s website at www.arapahoegov.com. Please note that the Board may discuss any topic relevant to County business, whether or not the topic has been specifically noticed on this agenda. In particular, the Board typically schedules time each Monday under “Committee Updates” to discuss a wide range of topics. In addition, the Board may alter the times of the meetings throughout the day, or cancel or reschedule noticed meetings. Questions about this agenda? Contact the Commissioners’ Office at 303-795-4630 or by e-mail at commissioners@arapahoegov.com

Study Session
May 7, 2019

Study Session Topics

10:30 A.M.  *Aurora Economic Development Council Annual Update (WHR)
Annual update presentation from Aurora Economic Development Council

Request: Information/Direction

Wendy Mitchell, President & CEO
Kat Middleton House, Vice President
Yuriy Gorlov, Vice President
Andrea Tilliss, Marketing Manager
Kevin Doran, Director of Public Affairs

11:30 A.M.  Administrative Meeting · Department Director Process Review Discussion (WHR)
Dusty Sash, Total Compensation Manager, Human Resources

Break

2:00 P.M.  *Tri-County Health Department Spring Update (WHR)
Update from the Tri-County Health Department

Request: Information/Direction

Dr. John Douglas, Executive Director, Tri-County Health Department
Kathleen Conti, District 1
Nancy Sharpe, District 2
Jeff Baker, Chair, District 3
Nancy Jackson, Chair Pro Tem, District 4
Bill Holen, District 5

Study Session
May 7, 2019

Study Session Topics

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Dusty Sash, Total Compensation Manager, Human Resources

*To Be Recorded As Required By Law

Tri-County Health Department Spring Update (WHR)

Update from the Tri-County Health Department
Request: Information/Direction

Dr. John Douglas, Executive Director, Tri-County Health Department

Documents:

DOC_BSR_TCHD_190429.DOC
ARAPAHOE BOCC SPRING BRIEFING 043019.PDF

*A To Be Recorded As Required By Law

WHR - West Hearing Room

Arapahoe County is committed to making its public meetings accessible to persons with disabilities. Assisted listening devices are available. Ask any staff member and we will provide one for you. If you need special accommodations, contact the Commissioners’ Office at 303-795-4630 or Relay Colorado 711.

Please contact our office at least 3 days in advance to make arrangements.
Board Summary Report

Date: April 29, 2019
To: Board of County Commissioners
From: Michelle Halstead, director of communication and administrative services
Subject: Update from Tri County Health Department

Request and Recommendation
Tri County Health Department (TCHD) will provide the Board of County Commissioners with their spring update on several items.

Background
Executive Director Dr. John Douglas, Tri County Health Department, will provide the Board with an update of recent public health issues of importance (e.g. communicable disease outbreaks, environmental health issues, legislation impacting public health), population level health data, and the Department’s newly developed Public Health Improvement Plan.

Reviewed By
John Christofferson, Deputy County Attorney
Tri-County Health Department
Arapahoe Board of County Commissioners 2019 Briefing

John M. Douglas, Jr., MD
Executive Director
Tri-County Health Department
May 7, 2019
Overview

• Core Public Health
  • Communicable Diseases—recent outbreaks
• Environmental Health
  • Water
  • Air quality
  • Permanent Household Hazardous Waste facility
• Data update
• New Public Health Improvement Plan
• Legislative matters
Mumps & Chickenpox Outbreak
ICE Contract Detention Facility, Aurora, CO

Mumps: 15 cases during January to April 2019
- 8 cases were infected before arriving at the facility
- 7 cases were exposed and infected at the facility
- No housing units currently in quarantine

Chickenpox: 9 cases during January to April 2019
- 6 cases were infected before arriving at the facility
- 3 cases were exposed and infected at the facility
- 1 housing unit currently in quarantine

MMR vaccination:
- Detainees
  - Initially offered MMR vaccination to all detainees to raise vaccination rates quickly
  - New detainees offered vaccine shortly after arrival
  - Weekly detainee vaccination rates have ranged from 68 to 85%
  - Vaccination has curbed the outbreak
- GEO Staff
  - TCHD conducted 5 on-site vaccination clinics for staff
  - 80% of staff received a vaccine
Growing Risk of Measles

Measles Outbreak Infests 695, Highest Number Since 2000

Number and Incidence of Reported Measles Cases – U.S., 2001 – April 2019* (N=3215)

Jurisdictions reporting ≥1 outbreak-related case, 2018-2019*

Estimated Percentage of Kindergartners with Documented MMR Vaccine, 2017-18

Tri-County Health Department
Ongoing Increases in STI

<table>
<thead>
<tr>
<th>Year</th>
<th>Chlamydia</th>
<th>Gonorrhea</th>
<th>Syphilis (any stage)</th>
<th>HIV (newly diagnoses)</th>
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<tr>
<td>2013</td>
<td>5,412</td>
<td>106</td>
<td>93</td>
<td>675</td>
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<tr>
<td>2014</td>
<td>5,999</td>
<td>128</td>
<td>108</td>
<td>733</td>
</tr>
<tr>
<td>2015</td>
<td>6,392</td>
<td>128</td>
<td>107</td>
<td>1,081</td>
</tr>
<tr>
<td>2016</td>
<td>6,528</td>
<td>179</td>
<td>117</td>
<td>1,545</td>
</tr>
<tr>
<td>2017</td>
<td>7,117</td>
<td>208</td>
<td>135</td>
<td>2,118</td>
</tr>
<tr>
<td>Provisional 2018</td>
<td>7,500</td>
<td>249</td>
<td>128</td>
<td>2,082</td>
</tr>
</tbody>
</table>
Hepatitis A Outbreak

- Colorado has seen a rise in Hepatitis A (HAV) cases
  - Total of 45 cases HAV in Colorado
  - 1 case of HAV in the TCHD jurisdiction
- Experiencing homelessness and using street drugs identified as risk factors
- Vaccination for prevention
  - 21 outreach clinics
  - 242 vaccinations
Perfluorinated Compounds (PFCs) in Quebec/I-270 Corridor

- PFCs
  - Family of synthetic chemicals (3000+) with heat/stain resistant properties (e.g., Teflon, Scotchguard, firefighting foam)
  - Concerns arising nationally (eg, El Paso Co 2016, Boulder County 2018)
- Detected in South Adams County water July 2018
  - Levels in several groundwater wells high
  - Levels in drinking water below EPA health advisory
  - District water is safe for consumers
Response to PFC Contamination in Quebec/I-270 Corridor

- TCHD coordinating with EPA, CDPHE, SACWSD, City of DDPHE
- TCHD conducted outreach to private well owners to offer PFC testing
  - 3/7 with levels > EPA Health Advisory Level
- Other sampling being conducted by CDPHE and DDPHE
  - Analysis incomplete but at least several other positive samples
- Collaborative Technical Workgroup in process of collating results to identify source.
Emerging Health Issue: Air Quality

- WHO considers one of top 10 global health threats
- Worsening in Metro area over past decade, ranked #12 in 2018

- Primary issues
  - Ozone
  - Oil/gas-specific issues
  - Greenhouse gases

- Health concerns
  - Respiratory disease
  - CV disease
  - Cancer
  - Warming climate
Air Quality Issues

PM 2.5

--PM 2.5: elevated levels associated with lung and heart disease

Ozone

--Ozone: elevated levels associated with asthma and lung disease
Household Hazardous Waste (HHW) Collection Models

- **Event Model**
  - Most expensive model
    - Mobilization of personnel to operate the event
  - Inclement weather – operate rain, snow, or shine
  - Inconvenient – only during the summer months, wait times, etc.

- **Curbside Model**
  - Limited to one bag issued to the resident
  - Many items accepted at events not accepted in a curbside model, i.e. tires
  - Inconvenient – bag not big enough to clean out a property, depends on how many people used the service in a year

- **Permanent Facility Model**
  - More predictable
  - Residents have 1-2 days per week to schedule appointments to visit the facility
  - More effective than the event and curbside models
Current HHW Programs in the Tri-County Area

- **Adams County**
  - Transitioning from TCHD event model to permanent model with public/private partnership
  - Using Veolia Environmental Services facility for HHW collection starting 2019
  - Privately owned permanent facility - shifted costs to the resident

- **Arapahoe County**
  - Contract with Waste Management, At Your Door
  - A curbside service
    - $20 cost to the resident and Southeast Metro Stormwater Authority pays for the remainder of the cost ~$130.00 per resident
  - Bag size limits amount of HHW collected
  - Limited amount of money allocated each year

- **Douglas County**
  - Household Chemical Roundup (HCR) Program
  - Three events per year with residents paying $25 per vehicle and the remainder of the costs supplemented by Douglas County sponsoring agencies
Steering Committee for Possible Arapahoe-Douglas Regional Recycle Center

- First meeting in January 2018 with Douglas County HCR Sponsors
- Arapahoe County joined the conversation in July of 2018
- Increasing interest with staff and elected officials
- Challenge
  - Finding property for a site
- Applied for grant funding through the Recycling Resources Economic Opportunity (RREO) Grant Program for consultant
  - Provide expertise in establishing permanent facility programs
  - Support/assist work of Steering Committee
  - Propel the project forward
Examples of Model HHW Collection Programs

- Top 19 examples from around the country
  - All of the examples listed are using the permanent facility model
- 2017 Tri-County Area Data: households served per year
  - Adams County: 0.65%
  - Arapahoe County: 0.17%
  - Douglas County: 2.8%
  - Arapahoe-Douglas survey
    - 2500+ responses
    - 80+% preferred service > 1 day event

<table>
<thead>
<tr>
<th>Highly-Effective HHW Collection Programs</th>
<th>Percent of Households Served per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  Hennepin County, MN</td>
<td>37.4%</td>
</tr>
<tr>
<td>2  City of Elk Grove, CA</td>
<td>33.3%</td>
</tr>
<tr>
<td>3  Marin County, CA</td>
<td>27.5%</td>
</tr>
<tr>
<td>4  Palo Alto, CA</td>
<td>19.2%</td>
</tr>
<tr>
<td>5  Delta-Diablo Sanitary District, CA</td>
<td>17.1%</td>
</tr>
<tr>
<td>6  Central Contra Costa San. Dist., CA</td>
<td>17.0%</td>
</tr>
<tr>
<td>7  Yakima County, WA</td>
<td>17.0%</td>
</tr>
<tr>
<td>8  Chittenden SWMD, VT</td>
<td>15.6%</td>
</tr>
<tr>
<td>9  Santa Barbara County, CA</td>
<td>15.5%</td>
</tr>
<tr>
<td>10 El Dorado County, CA</td>
<td>14.7%</td>
</tr>
<tr>
<td>11 Pinellas County, FL</td>
<td>14.7%</td>
</tr>
<tr>
<td>12 Leon County, FL</td>
<td>14.0%</td>
</tr>
<tr>
<td>13 Orange County, CA</td>
<td>13.7%</td>
</tr>
<tr>
<td>14 Thurston County, WA</td>
<td>13.6%</td>
</tr>
<tr>
<td>15 Palmdale, CA</td>
<td>12.2%</td>
</tr>
<tr>
<td>16 Boulder County, CO</td>
<td>11.0%</td>
</tr>
<tr>
<td>17 Sarasota County, FL</td>
<td>11.0%</td>
</tr>
<tr>
<td>18 Alameda County, CA</td>
<td>10.1%</td>
</tr>
<tr>
<td>19 Thousand Oaks, CA</td>
<td>9.7%</td>
</tr>
</tbody>
</table>

Table provided by Special Waste Associates
Regional Recycle Center Concept

- Working with city, county, and water district staff in Arapahoe and Douglas Counties to establish a Regional Recycle Center (Adams continuing with Veolia)

- Accept HHW, electronic waste, residential recycling, etc.

- Education center within the facility
  - Tours for school children and other adult groups
  - Engage the community

- Steering Committee meetings focused on siting a location
  - Potential sits along U.S. 85 corridor as it runs through both Counties

- Continuing to seeking grant funds for consultant
Declining US Life Expectancy

• 3rd consecutive year of falling life expectancy
• Longest streak since 1915-18
• Primary causes of change
  • Drug overdoses, especially fentanyl
  • Suicide
  • Pneumonia/Flu
• Similar trends seen in CO
Deaths Due to Drug Overdose and Suicide in CO and Tri-County Area

Deaths due to UNINTENTIONAL POISONINGS per 100,000 population:
Adams, Arapahoe and Douglas Counties and Colorado, 2008-2017

Deaths due to SUICIDE per 100,000 population:
Adams, Arapahoe and Douglas Counties and Colorado, 2008-2017

*Age-adjusted to the US 2000 standard population.
Source: Vital Statistics Branch,
Colorado Dept of Public Health & Environment
Deaths due to Prescription Opioids and Heroin 2010-17

Prescription Opioid Overdose Deaths
(Counts 2010-2017)

Heroin Overdose Deaths
(Counts 2010-2017)
Deaths Rates from Suicide by Age Group Across TC Area 2008-2017

% change 08-09 thru 16-17
0-17: 97%
18-24: 33%
25-44: 25%
45-64: -1%
65+: -11%

*Crude rates based on Colorado State Demographer Population Estimates
Source: Vital Statistics Branch, Colorado Dept of Public Health & Environment
Mental Health Indicators among High School Students 2017

Source: Healthy Kids Colorado Survey, Colorado Department of Public Health and Environment
Percent of high school students who describe attempting suicide by county and year

Douglas County did not participate in the survey in 2015
Source: Healthy Kids Colorado Survey, Colorado Department of Public Health and Environment
Substance abuse indicators among high school students, 2017

- Students who had at least one drink of alcohol on one or more days: 27%, 26%, 26%
- Students who drove a car/other vehicle when they had been drinking alcohol*: 10%, 3%, 6%
- Students who used marijuana one or more times*: 21%, 18%, 14%
- Students who drove a car/other vehicle when they had been using marijuana*: 11%, 14%, 19%
- Students who have taken a prescription drug (e.g., oxycontin, percocet, vicodin, codeine, adderall, ritalin, or xanax) without a doctor’s prescription: 5%, 5%, 6%, 5%

*Adams County values for these items are from 2015 as they were not asked in 2017

Source: Healthy Kids Colorado Survey, Colorado Department of Public Health and Environment
Percent of high school students who smoked cigarettes in past 30 days

Source: Healthy Kids Colorado Survey. Colorado Department of Public Health and Environment
Youth Vaping: A Growing Concern

- Colorado ranks 1\textsuperscript{st} in youth vaping
- Health issue
  - Nicotine addiction
  - Direct toxicity by vape chemicals to vaper and bystanders
- Public health responses
  - Education
  - Licensing (to include e-cigs)
    - Facilitated by HB 19-1033
  - Inclusion in CO Clean Indoor Air Act
    - Provided by HB 19-1076
  - Raising legal age of purchase (T-21)

---

Percent of high school students who had ever used an electronic cigarette by county and year

Percent of high school students who had used an electronic cigarette in the past 30 days by county and year
TCHD Strategic Initiatives Framework

Strategic Plan (SP)

Foundational Capacity Goals

1. Informatics and Technology
   - Community Health Assessment (CHA)

2. Strategic Communication
   - Performance Improvement (PI)

3. Policy and Partnerships
   - PH Accreditation (PHA)

4. Organizational Sustainability

5. Obesity/Chronic Disease

6. Tobacco/Substance Abuse

7. Health Care Interactions and Delivery

8. Healthy Human Environment

9. Mental Health
   - Public Health Improvement Plan (PHIP)

Core Public Health Services

- Administration
- Vital Records
- Communicable Disease Control
- Epidemiology/Planning
- Immunization
- Family Planning
- Maternal Child Health
- WIC
- Environmental Health
- Emergency Preparedness and Response

Commitment to Promoting Health Equity

Rev. 10/2015
Health Departments in Colorado required to complete a CHA every 5 years, leading to a PHIP

Purpose: learn about the community including:
- health of the population
- contributing factors to higher health risks or poorer health outcomes
- community assets and resources that can be mobilized to improve population health

Based on input from our partners and stakeholders and community residents
TCHD 2018 Community Health Assessment

TCHD CHA Prioritization Survey

Ranked most important health problems in your community (N=420)

- Access to Mental and Physical Health Care Services: 882
- Health and Housing: 747
- Mental Health: 739
- Health and Economic Security: 641
- Health and Food: 557
- Health and Social Connections: 512
- Health and Education: 480
- Health and Safety: 460
- Substance Use and Health: 373
- Health and the Environment: 330
- Health Behaviors: 209
- Sexual and Reproductive Health: 201
TCHD 2019-2024 Public Health Improvement Plan

Priority Area 1: Access to Mental and Physical Health Care Services

Goal 1: Improve access to care through advocacy, policy development and implementation, and alignment of quality and/or performance measures.
Goal 2: Improve access to care through health insurance enrollment support and health care system navigation.
Goal 3: Decrease barriers to care.

Priority Area 2: Mental Health

Goal 1: Improve mental and behavioral health through advocacy, policy development and implementation, and shared performance measures.
Goal 2: Reduce poor health outcomes related to mental health.

Priority Area 3: Health and Food

Goal 1: Increase access to safe, nutritious, affordable and culturally relevant food, especially in communities with limited resources and communities of color.
Goal 2: Promote food security and healthy eating habits through messaging, education, advocacy, and policy development.

Priority Area 4: Health and Housing (Developmental)

Goal 1: Improve quality of housing for TCHD population, especially for those most vulnerable in our communities.
Goal 2: Improve access to attainable housing for TCHD population, especially for those most vulnerable in our communities.
Goal 3: Prevent displacement of TCHD populations, especially for those most vulnerable in our communities.
Tri-County Overdose Prevention Partnership

• Coalition of partners across our counties
• 6 overarching strategies in a comprehensive framework based on a foundation of data & evaluation
• Goals:
  • Reduce overdose deaths
  • Increase awareness and education of factors leading to and prevention death
TCHD Substance Abuse Prevention Measures

**Key health outcomes**
- Deaths due to drug overdoses (opioids, other)
- Hospitalization due to drug overdose
- Youth substance use
  - Alcohol
  - Marijuana
  - Prescription drugs without a prescription
  - Controlled substances dispensed (% opioid)

**Key program measures**
- Youth prevention
  - # community coalitions actively engaged
  - # engaged partners in each coalition
- Public education
  - # public events
  - # media campaigns conducted
  - Campaign reach/impressions

**Key Program Measures (cont.)**
- Provider training
  - # provider educational opportunities
  - # providers trained
- Disposal
  - # safe disposal locations
  - Pounds of medications collected
- Naloxone
  - # law enforcement agencies carrying/trained
  - # pharmacies dispensing
- Syringe access services
  - Clients served
  - Syringes distributed, collected, disposed
  - Naloxone kits distributed/used
- Treatment provider capacity
## Arapahoe County Permanent Medication Takeback Locations

<table>
<thead>
<tr>
<th>Location</th>
<th>Began Collections</th>
<th>5,452 Total Pounds Collected (Inception – Q1 2019)</th>
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</thead>
<tbody>
<tr>
<td>Littleton PD</td>
<td>Nov 2016</td>
<td>3214</td>
</tr>
<tr>
<td>Glendale PD</td>
<td>Nov 2016</td>
<td>1324</td>
</tr>
<tr>
<td>Arapahoe County Sheriff (Centennial)</td>
<td>Mar 2018</td>
<td>891</td>
</tr>
<tr>
<td>Benzer Pharmacy (Byers)</td>
<td>Apr 2018</td>
<td>Not available</td>
</tr>
<tr>
<td>Genoa Pharmacy at Aurora Mental Health Center</td>
<td>Aug 2018</td>
<td>33</td>
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</table>

Source: CDPHE
A Social Norming Campaign to Address Mental Health Stigma: Let’s Talk Colorado

- Stigma reduces willingness to seek care for self, others
- **Let’s talk Colorado (English and Spanish)**
  - Collaborative campaign across Metro Denver
  - Launched
    - Kick-off May 2017: MH Awareness Month
    - Reframed May 2018
    - May 2019 re-focus “how to engage men”, based on targeted focus groups (Spanish-speakers, Re-entry and recovery, Members of South Metro Denver Chamber, LGBTQI, Veterans)
- Supported by 300+ collaborating organizations
- Used across Denver Metro area and by other Health Depts across CO
  - 75+ million media impressions since launch (80+% unpaid)
- Key message: Start the conversation
  - Talk
  - Seek help
  - Listen
Food Insecurity in the TC Area

Figure 1: Food insecurity among different groups, by county, varied years

- Adams: 36% (Children ages 1-14), 17% (High School Students), 18% (Pregnant Women), 25% (Adults ages 60+)
- Arapahoe: 25% (Children ages 1-14), 15% (High School Students), 17% (Pregnant Women), 25% (Adults ages 60+)
- Douglas: 31% (Children ages 1-14), 14% (High School Students), 10% (Pregnant Women), 22% (Adults ages 60+)
- Colorado: 25% (Children ages 1-14), 9% (High School Students), 14% (Pregnant Women), 12% (Adults ages 60+)

*Child Health Survey, CDPHE, 2016-2017 Percentage of parents of children ages 1-14 who sometimes or often relied on only a few kinds of low-cost food to feed their child because they were running out of money to buy food in the past 12 months
**Healthy Kids Colorado Survey, Arapahoe, Douglas, and Colorado 2017, Adams 2015, Percentage of 9-12 grade students who went hungry in the last 30 days sometimes, most of the time, or always because of lack of food at home
***Pregnancy Risk Assessment Monitoring System, CDPHE, 2016, Percentage of postpartum women who ever ate less than they felt they should because there wasn’t enough money to buy food during the 12 months before their new baby was born
****Behavioral Risk Factor Surveillance System, CDPHE, 2016, Percent who were sometimes, usually, or always worried or stressed about having enough money to buy nutritious meals

Figure 3: WIC Enrollment, 2014-2016

- Adams County: 64% of those eligible are enrolled
- Arapahoe County: 54% of those eligible are enrolled
- Douglas County: 26% of those eligible are enrolled
- Colorado: 56% of those eligible are enrolled
Partnerships Are Key

• TCHD has a growing collaboration with other Metro area Health Depts
  • Boulder
  • Broomfield
  • Denver
  • Jefferson
• Key areas of focus
  • Behavioral Health
  • Data Sharing
  • Healthy Eating Active Living
  • Partner Alignment
  • Hospitals
  • Human Services
• Environmental Health/Climate Change
• Recognized as a NACCHO Promising Practice
Legislative Update

• Tobacco
  • HB19-1033: Local Governments May Regulate Nicotine Products
  • HB19-1076: Clean Indoor Air Act Add E-Cigarettes Remove Exceptions
• Behavioral health
  • HB19-1269: Mental Health Parity Insurance Medicaid
  • SB19-228: Substance Use Disorders Prevention measures
• Immunization: HB19-1312-School Immunization Requirements
• Environmental Health
  • HB19-1014 Retail Food Inspection and Suspension
  • HB19-1279 Regulation Of Firefighting Foams And Protective Equipment
Restaurant Ratings Consumer Focus Groups

- CDPHE approved ratings system – (Excellent, Good, Fair, Marginal, Unacceptable)
- Displaying ratings by LPHA is voluntary
- CDPHE proposed new system
- Desire for broad consumer input statewide on ratings and methods of communication
Procedures to be followed for legislative testimony, emails to legislators, editorials

- ED to notify BOH President
- President will notify other BOH members, including designated BOH representatives from each county who will notify their respective Commissioners
- All communication will specifically state that it represents the position of TCHD but not the Commissioners of Adams, Arapahoe, or Douglas Counties
- Annual summaries of testimony, legislative emails, and editorials to be provided to BOH and distributed to Commissioners
Looking forward:
Opportunities & Challenges

• Implementing our broader 2019-2024 PHIP
• Finalizing our 2019-2024 Strategic Plan
• Addressing health and policy needs across a diverse jurisdiction
• Expanding and maturing our partnerships
• Public health transformation as a vehicle for messaging and resources
• Addressing Health Equity/Social Determinants of Health