

### TB SURVEILLANCE IN CLARK COUNTY. CURRENT SITUATION IN THE SCHOOL DISTRICT.

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## **Office of Disease Surveillance- TB Surveillance** Surveillance investigates all reports of suspected and

- confirmed TB cases
- Surveillance receives reports from hospitals, specialists, and laboratories
- Suspected cases are followed closely • Recommendation for rapid molecular testing
- All suspect or confirmed started on TB medications is immediately investigated
- All confirmed, culture positive or clinical cases receive **contact** investigations

## **TB Surveillance and TB Clinic**

- Surveillance works closely with the TB Clinic
- **DIIS** station in the clinic
- **Daily communication and information** sharing
- Collaborate on cases with Nurse Case Managers



## **TB in Clark County**

SUNL OF THE	Division of Public and Behavioral Health - Tuberculosis Program Fast Facts														
	Nevada Tuberculosis Cases, 2018 - 2022~														
	2018		2019		2020		2021			2022					
······································	N	%	Rate†	N	%	Rate†	Ν	%	Rate+	Ν	%	Rate†	N	%	Rate†
Nevada Total	69	100%	2.3	53	100%	1.7	57	100%	1.8	61	100%	1.9	62	100%	1.9
County	n	%	Rate†	n	%	Rate†	n	%	Rate <sup>+</sup>	n	%	Rate†	n	%	Rate <sup>+</sup>
Clark	60	87.0%	2.7	45	84.9%	2.0	51	89.5%	2.2	54	89.0%	2.3	54	87.1%	2.3
Washoe	9	13.0%	2.0	7	13.2%	1.5	4	7.0%	0.8	7	11.0%	1.5	6	9.7%	1.2
Carson City	0	0.0%	0.0	1	1.9%	1.8	1	1.8%	1.8	0	0.0%	0.0	0	0.0%	0.0
All Other Counties*	0	0.0%	0.0	0	0.0%	0.0	1	1.8%	0.3	0	0.0%	0.0	2	3.2%	0.7

2022-54 Cases / 584 Contacts / 1 TB Disease / 112 LTBI Of the 54 active cases, 43 were born outside of the United States



## **Screening Cascade – Step 1**

Screening is a tool used to determine if a person should get tested for TB

**Higher risk populations include** 

Infants, children, and adolescents exposed to adults who are at increased risk for latent tuberculosis infection or TB disease

People from a country where TB disease is common (most countries in Latin America, the Caribbean, Africa, Asia, Eastern Europe, and Russia)

**People who have spent time with someone who has TB disease** 

People who live or work in high-risk settings (for example: correctional facilities, longterm care facilities or nursing homes, and homeless shelters)

Health-care workers who care for patients at increased risk for TB disease

# **Screening Cascade - Step 2**

### Testing

- Interferon Gamma Release Assay (IGRA)
  - Increased specificity for TB infection in persons vaccinated with Bacille **Calmete-Guerin (BCG).**
  - Many persons born outside of the United States have been vaccinated with BCG.
  - QuantiFERON (QFT)
    - Gold standard for testing
    - simple blood draw
    - only requires one visit
- Tuberculin Skin Test (TST)
  - Only used for children under 2
  - injection under the skin
  - requires return visit to read results

### SNHD provides free testing to any contact to an active case



# **Current Situation**

## **Confirmed active TB cases at CCSD Schools since January 2023**

- 2 Elementary school, special education, teachers
  - (96 total contacts)
- 1 High school, math teacher, is also a student at UNLV
  - (212 total contacts)
- All 3 were originally from high burden countries
  - Year of US entry 2002, 2007, 2020 >

2013 CCSD dropped the requirement for mandatory TB testing based on updated CDC guidance and **SNHD** recommendations



## **SNHD Response**

- Strong collaboration with CCSD authorities •
- Voluntary TB Risk Assessment
- Risk Assessment User Guide
- Frequently asked Questions •

dan ber	h Thomas Manager
	Voluntary Tuberculosis Risk Assessment
	purpose of this tool is to identify individuals with infectious tobercolouk (TE) on a nitreated tobercolouk disease a longer new latent TE infection - LTE (), to generant the spread of disease.
• Do	not repeat insting online there are <u>new</u> risk factors does the last negative test.
for will	nati terat fan ladent TR Infection (LTNI) weill a clive TR diverse has hen e nodaded. Indikingen wikh siges er spespiser of TR diverse er obsoewel steet a rep canadest wikt TR diverse, sveikste forectike TR devene In deet 1-rep, symptom somen, oad Sindicated, speiser ATR amene, ooksen, oed worke nod om pijfenties het het gallee datemolie alde test (TST) er interføren generer wiene energ (ISA4) doer oot vere not outer R diverse.
Same	of Persa n Assessed for TB Blok Factors:
Aure	nort Eatr: Date of Birth:
	History of Tuberculosis Okease or Infection (Check appropriate box below)
	in .
	<ul> <li>If the series is <u>decommental</u> bickey of positive filtered is 1% disease, then a symptom series and class to try (if no ne performed in the previous of month (who all the performed at initial to be by aphysician, physician assistant, or more practitioner. If there my does not have evidence of 1%, the person is no is approximated as and not to a 1% risk assessment or report thest errys.</li> </ul>
	the previous of exactly (should be prefix much at initially inelay a physician, physician assistant, an earse prescritioner. If the e-way does not have
	the previous of month () does all he performed at initial in the by a physician, physician assistant, ar more practitioner. If the e-my does not have evidence of 'Di, the person is not a oper required to admit to a 'Di rich assessment or repertabet errys.
	the previous of month () does all he performed at initial in the by a physician, physician assistant, ar more practitioner. If the e-my does not have evidence of 'Di, the person is not a oper required to admit to a 'Di rich assessment or repertabet errys.
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	the president in and (plot of the politioned or initial to be by splitplots, physician subcart, or more practitions). If there are does not have evidence of "It, the present is not in pperception to admit to a florida subcarament or report the to erry). No (Assess for Kith Pactors for "Ith escales), using too below TB treating is recommended if <u>any</u> of the 3 boson below are checked Does on more sign(s) or ray option (s) of TB disease
	the president in and (plot of the politioned or initial to be by aphysician, physician assistant, or more practitions). If the energy does not have existence of "the flow or "the flow or the initial to a flow interval to assess and the report the to erry t. No (Answer for Nith Florence for "the encloses using too below (in a graph of the 3 boards below and checked The containing is necessarily of the data to The second sign(a) or every theory) of The data to - The symptome include protocy, to opting up thead, have, hight toward, weight for a respective higher.

If the answer is YES to any of the above questions, you should be tested for TB. Please brint this document with you to your healthcare provider who can order this testing for you. If you do not have a healthcare provider, please contact SIMHD 702-759-1015.

If the answer to all the above questions is NO, no further action is required.



### Voluntary Tuberculosis (TB) Risk Assessment User Guide

### Background.

The shift from tuberculosis (TB) control to TB. elimination requires enhanced and new presention methods. Travel to countries with high rates of disease is associated with increased rates of TB disease and latent infection. This is of particular concern because of the high risk of active disease. following new infection.

The U.S. Centers for Disease Control and Prevention (CDC) recommends that travelers "who a niicipate. possible projoneed exposure to taberculosis" should undered tubercallin tests before and after travel. while those "who anticipate repeated travel with possible prolonged exposure or an extended stay.

over a period of years in an endemic country' should undergo baseline two-step tubercalis testing, with subsequent annual tests if negative at baseline.

The Health District plans to use this survey to identify at-risk travelers and recommend the screening and follow-up for students, teachers, and those who work in public settings.

### Teeling for latent TE infection (LTB)

Because an interferon gamma release away (ISBA) blood test that increased specificity for TB infection is persons succinated with BCG. ISBA is another to discontine to because in which to stiff TSTE in these percent. Most percent born outside the United States have been vaccinated is in 500.

### Previous or inactive tabenculasis

Persons with a previous chest radiograph showing findings. consistent with previous or inactive TB should be tested for UTM. In addition to UTM testing, evaluate for active TM discourse.

### Repathents at for UTB1 does not rale out TB disease. It is important to remember that a netative TST or ISBA result

clear, not rule out active TB disease. In fact, a negative TST or IGR8. in a person with active 76 can be a sign of a density disease. and see not to me.

### Symptoms of TB should trigger evaluation for active

TR discover. Persons with any of the following completes that are otherwise unexplained should be medically evaluated: pourh for more than 3-3 weeks, few to night severate weight loss, hereaptysis,

Emphasis on short cause for treatment of UTB Shorter regiment for treating LTBI have been shown to be more likely to be completed and the 3 month 33 does review has been shown to be as effective as ill months of itemiacid. It is of these who ther regimeers is preferred in most path stru. Drug drug interactions and contact to drug resistant TE are topical reasons. these regime to cannot be used.

Report risk processment and testing If the tests a clock mented blockey of pasitive 18 test or 18 disease, then a symptom review and chect's ray should be performed at initial hire. Dece a percent as a decumented positive text for TE infection that has been followed by a check oncy (COI) that was determined to be here of infection 1. TB, the TB disk assessment (and repeat o-tays) is no for service mended.

Repeat risk assessments should occur every hear years is deep others is nearing its identify are additional till factors, and TR testine based on the results of the TB risk assessment. Re-testine should only be done in persons who previously tested negative. and have new risk factors since the last assessment.



### Most patients with LTB i she ald be treated.

Be cause testing of percent at low risk of UTB is toold not be clean, perconstitution (position for LTB) should generally be treated or to active T6 disease has been raied act. I as see a clinician, thould not be controlled to treat low risk sensors with a scaling text for LTBL

Nears corruit with your local public health department as ney other recommendations and meedater that should also be cassificited.

### Scan to use the electronic Kisk Assessment



### Voluntary Tuberculosis Risk Assessment Frequently Asked Questions

SNHD's recommendation is that school staff working with children complete a voluntary tuberculosis fisk assessment and if indicated, test for TB. Additionally, this risk assessment follows recommendations for targeted TB testing from the Federal Centers for Disease Control and Prevention (CDC).

### Who developed the voluntary TB risk assessment?

The Southern biovach Health District developed the TB side assessment. The disk supersonent mast adapted from a form developed by Mine supta De sartment of Health 16 Prevention and Cantrol Program and the Centers for Disease Control and Prevention. The Health District plans to use this survey to identify at-risk individuals and recommend the screening and follow-up. for students, teachers, and those who work in public settings.

### What has see a after taking this risk assessment?

If Way this is identified - Wey further to loss up is an extract. If you are entered future risk, you can take the screening ansis.

I think is identified - Take the results of the sceneric give year health care provider. If you do not have a health care provider, call Shift at 702-758-3015 for referrals.

Whe receives the near its of this economing? Health district staff review the results and provide referrals as needed.

Who is this information shared with 7 The risk assessment is car fide stial, and the information is not theard with an your patient of the 100000

### What is a "health care provider"?

8. The Bh care provider" means any organization, facility, institution, or person losen set, cortified, or otherwise as thesis of or permitted by state law to do its er or furnish he alth service t.

### in regard to have $l_{\rm c}$ what is mean thy "protenged expenses"?

While the CEC does not define "protonged exposure" they do recommend pre-and part-travel screening if going to live an opend significant. time in a TB-and amic country. For example, if a person stayed the active summer and the meture of. How with to discuss this further or in we disabilitize all existences, was in any constant the local health department at T02-758-0015.

### What If they a Till screening or treatment questions?

If you have specific TE screening or treatment questions, please contact your local TE control program https://www.acuthernnew.dahealthchdrict.org/community-health-center/fuberculosis-treatm

### Who may i contact to get further information or to down load the TB risk assessment? Specific and his special it shafts it intrict -

https://www.southernnew.dahealthchdrict.org/community-health-center/tuberculosis-treatment-control clinic/tuberculosis-to-screening-question naivey

### Difference courses of Meyoda Tuberculoula (TII) Presention, Control and Elimination Program

https://cabbas.co/Pressent/Te/Lisecularis (TE) Presentian, Castrol and Diminution Process - Hone

# **SNHD Response**

### Online Screening Tool

- QR Code
- https://www.southernnevadahealthdistrict.org/co mmunity-health-center/tuberculosis-treatmentcontrol-clinic/tuberculosis-tb-screeningquestionnaire/
- One page flyer



### Are you at risk for TB?

Southern NV Health District (SNHD) recommends that school staff working with children scree for risk of LTBI and infectious tuberculosis (TB). Early detection and treatment of TI Infection (also known as Latent TB) can prevent Active TB Disease.

Who should be tested for TB

- · Infants, children, and adolescents exposed to adults who are at increased risk for latent tuberculosis infection or TB disease
- People from a country where TB disease is common (most countries in Latir America, the Caribbean, Africa, Asia, Eastern Europe, and Russia)
- People who have spent time with someone who has TB disease
- People who live or work in high-risk settings (for example: correctiona facilities, long-term care facilities or nursing homes, and homeless shelters)
- Health-care workers who care for patients at increased risk for TB disease

It's easy to screen for TB infection!

After completing the confidential screening, you will know if you should get tested. You can visit your own healthcare provider for testing or if you need help finding a provider or other resources, SNHD can help! If you qualify based on the screening you will receive an email with guidance and additional information.

Scan to use the electronic Risk Assessment





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sis (TB) Screening Questionnaire	
sis Education for Health Care als	
als Program Policy Statement	
sis Symptoms & Treatment	

### Tuberculosis (TB) Screening Questionnaire

The shift from tuberculosis (TB) control to TB elimination requires enhanced and new prevention methods. Travel to countries with high rates of disease is associated with increased rates of TB disease and latent infection. This is of particular concern because of the high risk of active disease following new infection.

The U.S. Centers for Disease Control and Prevention (CDC) recommends that travelers "who anticipate possible prolonged exposure to tuberculosis" should undergo tuberculin tests before and after travel, while those "who anticipate repeated travel with possible prolonged exposure or an extended stay over a period of years in a endemic country" should undergo baseline two-step tuberculin testing, with subsequent annual tests if negative at baseline.

In the past five years, the Southern Nevada Health District has investigated TB exposures in educational settings, and three child care/group care facilities of which 9 ercent of the educational setting exposures were large and extensive (range 99-400) contact investigations. The Health District plans to use this survey to identify t-risk travelers and recommend the screening and follow-up for students, teachers, and those who work in public settings.

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L		Your Full Name *								
L		First Name			Last Name					
		Your Email *								
		usemame		@ examp	pie.com					
n		Your Telephone								
в		(1001) 1001-10001								
_		Your Address Zipcode *								
		Post Code								
		Are You? *								
d		O Student								
		O Parent or Guardian								
n		Teacher or School Staff								
		O Health Care Worker								
л		O Casino or Hotel Worker								
	O Other									
-		Name of School *								



## **Questions?**

# THANK YOU