# At a Glance: Concentration Top Region: 27% Top 3 Regions: 70% Lowest Region: 2% Locations 2 or more (2020): 10% 2 or more (Now\*): 12%

Over half of all pharmacists in the state work in either Northern Virginia or Central Virginia.

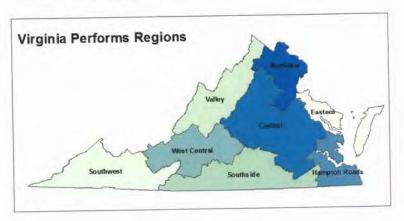
Nur	nber of \	Work Lo	cations		
Locations	Work Work Locations in Location 2020 Now		Locations in Location		ions
	#	%	#	%	
0	325	4%	363	5%	
1	7,619	86%	5,534	83%	
2	450	5%	441	7%	
3	279	3%	263	4%	
4	32	0%	15	0%	
5	19	0%	13	0%	
6 or More	104	1%	67	1%	
Total	8,827	100%	6,696	100%	

<sup>\*</sup>At the time of survey completion, December 2020. Source: Va. Healthcare Workforce Data Center

### A Closer Look:

Regional Dist	ribution (	of Work L	ocations	5	
Virginia Performs	Prim Loca		Secondary Location		
Region	#	%	#	%	
Central	1,721	27%	158	18%	
Eastern	110	2%	20	2%	
Hampton Roads	1,185	18%	144	17%	
Northern	1,610	25%	203	23%	
Southside	212	3%	26	3%	
Southwest	358	6%	84	10%	
Valley	387	6%	67	8%	
West Central	731	11%	76	9%	
Virginia Border State/DC	45	1%	30	3%	
Other US State	47	1%	52	6%	
Outside of the US	2	0%	4	0%	
Total	6,408	100%	864	100%	
Item Missing	2,091		22		

Source: Va. Healthcare Workforce Data Center



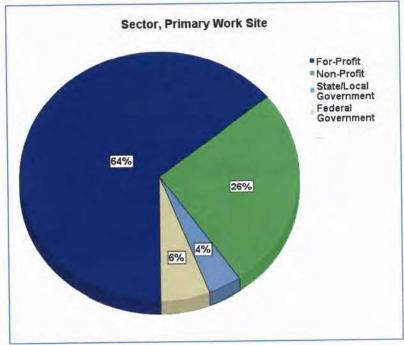
Over the past year, 10% of Virginia's pharmacists worked at multiple locations.

Locat	ion Sect	or		
Sector	Prin Loca		Secondary Location	
	#	%	#	%
For-Profit	3,832	64%	560	70%
Non-Profit	1,568	26%	174	22%
State/Local Government	231	4%	34	4%
Veterans Administration	129	2%	5	1%
U.S. Military	134	2%	18	2%
Other Federal Gov't	78	1%	7	1%
Total	5,972	100%	798	100%
Did not have location	328		7,940	
Item Missing	2,529		88	

Source: Va. Healthcare Workforce Data Center



91% of all pharmacists work in the private sector, including 64% who work at a for-profit company. Another 5% of pharmacists work for the federal government, while 4% work for a state or local government.

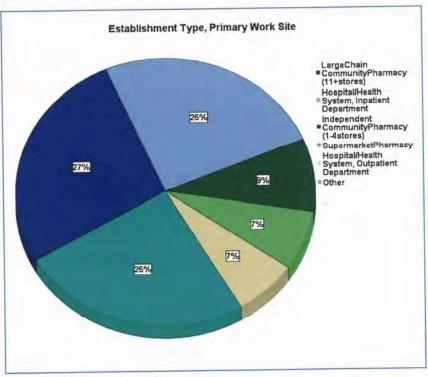


Top Location	Types			
Establishment Type	Prim Local		Secondary Location	
	#	%	#	%
Large Chain Community Pharmacy	1,583	27%	197	25%
Hospital/Health System, Inpatient Department	1,473	25%	140	18%
Independent Community Pharmacy	523	9%	105	13%
Supermarket Pharmacy	420	7%	32	4%
Hospital/Health System, Outpatient Department	405	7%	32	4%
Mass Merchandiser (i.e. Big Box Store)	238	4%	29	4%
Clinic-Based Pharmacy	210	4%	73	9%
Nursing Home/Long-Term Care	176	3%	30	4%
Benefit Administration	151	3%	11	1%
Academic Institution	113	2%	36	5%
Home Health/Infusion	69	1%	5	1%
Mail Service Pharmacy	68	1%	7	1%
Manufacturer	52	1%	3	0%
Small Chain Community Pharmacy	28	0%	5	1%
Wholesale Distributor	10	0%	1	0%
Other	346	6%	72	9%
Total	5,865	100%	778	100%
Did Not Have a Location	328		7,940	

Large chain
community pharmacies of
more than 10 stores are
the most common
establishment type in
Virginia, employing over a
quarter of the state's
pharmacist workforce.

Source: Va. Healthcare Workforce Data Center

Large chain community pharmacies of more than 10 stores were also the most common establishment type among pharmacists who had a secondary work location.



### At a Glance: (Primary Locations)

### **Typical Time Allocation**

Patient Care: 80%-89% Administration: 1%-9%

### Roles

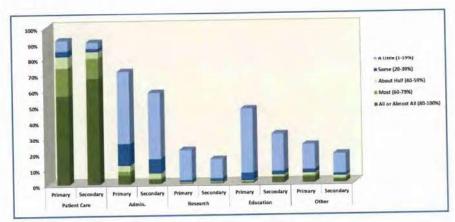
Patient Care: 74% Administration: 8% Education: 1%

### **Patient Care Pharmacists**

Median Admin Time: 1%-9% Ave. Admin Time: 1%-9%

Source: Vo. Healthrare Workforce Data Center

### A Closer Look:



Source: Va. Healthcare Workforce Data Center

A typical pharmacist spends most of her time in patient care activities. In fact, about three-quarters of pharmacists fill a patient care role, defined as spending at least 60% of her time in that activity.

			Tir	ne Allo	ation					
	Pati Ca		Adn	nin.	Rese	arch	Education		Other	
Time Spent	Pri. Site	Sec. Site								
All or Almost All (80-100%)	56%	67%	6%	3%	0%	1%	1%	3%	3%	2%
Most (60-79%)	18%	13%	2%	1%	0%	0%	0%	0%	1%	1%
About Half (40-59%)	7%	5%	4%	3%	0%	0%	1%	1%	1%	2%
Some (20-39%)	4%	2%	14%	9%	1%	2%	5%	2%	2%	1%
A Little (1-20%)	7%	4%	46%	42%	19%	12%	41%	24%	16%	12%
None (0%)	8%	10%	29%	42%	79%	84%	53%	69%	76%	82%

Retiremen	it Expect	ations			
Expected Retirement	А	11	Ove	r 50	
Age	#	%	#	%	
Under age 50	220	4%	+	-	
50 to 54	241	4%	0	0%	
55 to 59	628	11%	122	6%	
60 to 64	1,431	26%	549	26%	
65 to 69	1,931	35%	859	41%	
70 to 74	572	10%	315	15%	
75 to 79	155	3%	91	4%	
80 or over	87	2%	44	2%	
I do not intend to retire	318	6%	117	6%	
Total	5,582	100%	2,097	100%	

Source: Va. Healthcare Workforce Data Center

### At a Glance:

**Retirement Expectations** 

All Pharmacists

Under 65: 20% Under 60:

Pharmacists 50 and over

Under 65: 32% Under 60:

Time until Retirement

Within 2 years: 7% Within 10 years: 23% Half the workforce: By 2045

45% of Virginia's pharmacists expect to retire before the age of 65, while 21% plan on working until at least age 70. Among pharmacists who are age 50 and over, 32% still plan on retiring by age 65, while over a quarter expect to work until at least age 70.

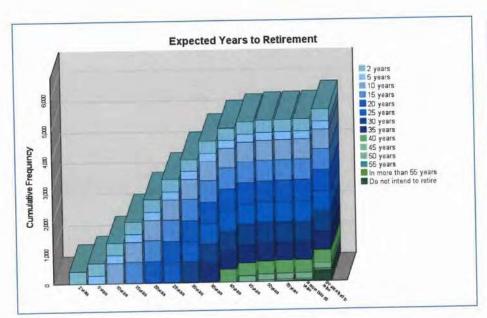
Within the next two years, 2% of Virginia's pharmacists plan on leaving the profession and 3% expect to leave the state. Meanwhile, 9% of pharmacists expect to pursue additional educational opportunities, and 8% plan on increasing the number of hours that they devote to patients.

Future Plans		
2 Year Plans:	#	%
Decrease Participation	on	
Leave Profession	169	2%
Leave Virginia	229	3%
Decrease Patient Care Hours	249	3%
Decrease Teaching Hours	28	0%
Increase Participation	on	
Increase Patient Care Hours	705	8%
Increase Teaching Hours	418	5%
Pursue Additional Education	817	9%
Return to Virginia's Workforce	120	1%

By comparing retirement expectation to age, we can estimate the maximum years to retirement for pharmacists. Only 7% of pharmacists plan on retiring in the next two years, while 23% plan on retiring in the next ten years. Half of the current pharmacist workforce expect to retire by 2045.

Time to R	etiremen	t	
Expect to retire within	#	%	Cumulative %
2 years	396	7%	7%
5 years	261	5%	12%
10 years	647	12%	23%
15 years	682	12%	36%
20 years	700	13%	48%
25 years	651	12%	60%
30 years	655	12%	72%
35 years	588	11%	82%
40 years	407	7%	89%
45 years	196	4%	93%
50 years	49	1%	94%
55 years	18	0%	94%
In more than 55 years	13	0%	94%
Do not intend to retire	318	6%	100%
Total	5,582	100%	

Source: Va. Healthcare Workforce Data Center



Source: Va. Healthcare Workforce Data Center

Using these estimates, retirement will begin to reach 10% of the current workforce starting in 2030. Retirement will peak at 13% of the current workforce around 2040 before declining to under 10% of the current workforce again around 2060.

### At a Glance:

### **FTEs**

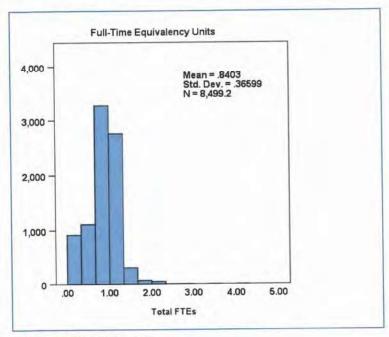
7,142 Total: FTEs/1,000 Residents<sup>2</sup>: 0.836 0.85 Average:

### Age & Gender Effect

Age, Partial Eta<sup>3</sup>: Small Gender, Partial Eta3: Negligible

> Partial Eta<sup>3</sup> Explained: Partial Eta<sup>3</sup> is a statistical measure of effect size.

### A Closer Look:

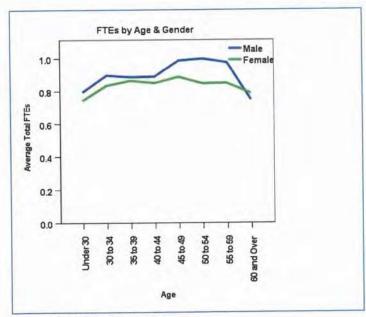


Source: Va. Healthcare Workforce Data Center

The typical pharmacist provided 0.85 FTEs in 2020, or about 34 hours per week for 52 weeks. Although FTEs appear to vary by both age and gender, statistical tests did not verify that a difference exists.3

Full-Time Equivalency Units					
	Age				
	Average	Median			
Under 30	0.77	0.83			
30 to 34	0.84	0.86			
35 to 39	0.83	0.84			
40 to 44	0.81	0.80			
45 to 49	0.99	1.09			
50 to 54	0.87	0.83			
55 to 59	0.88	0.83			
60 and Over	0.76	0.72			
	Gender				
Male	0.88	0.96			
Female	0.84	0.93			

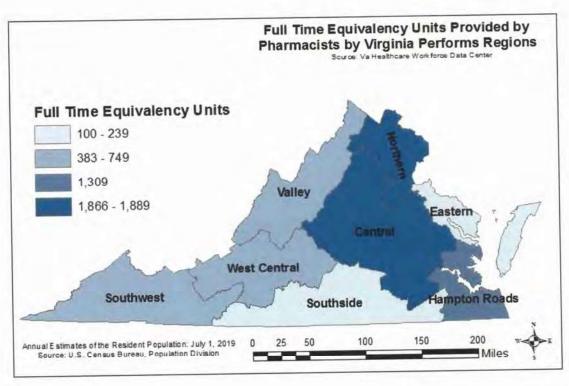
Source: Va. Healthcare Workforce Data Center

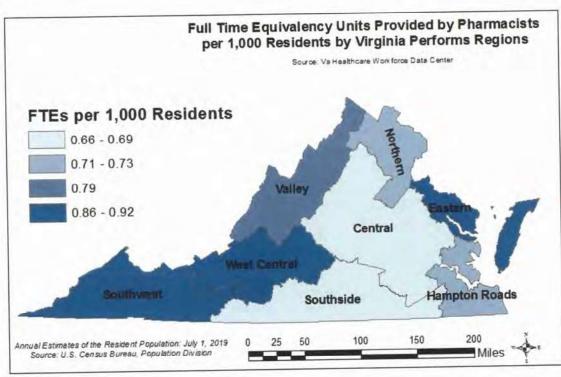


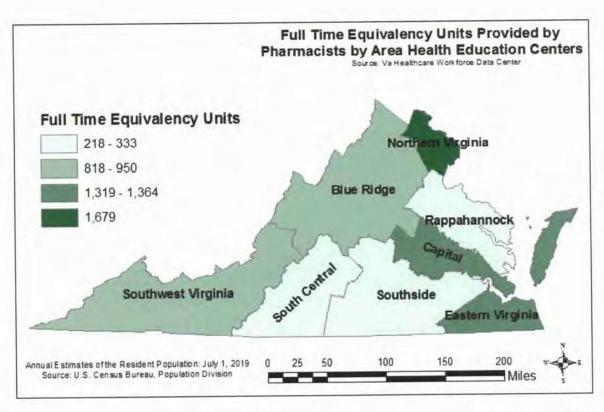
<sup>&</sup>lt;sup>2</sup> Number of residents in 2019 was used as the denominator.

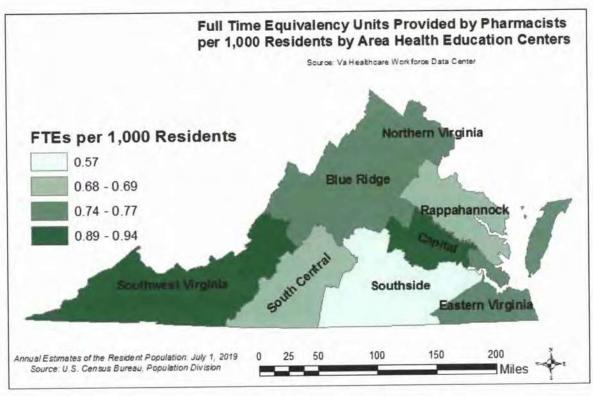
<sup>&</sup>lt;sup>3</sup> Due to assumption violations in Mixed between-within ANOVA (Levene's Test & Interaction effect are significant).

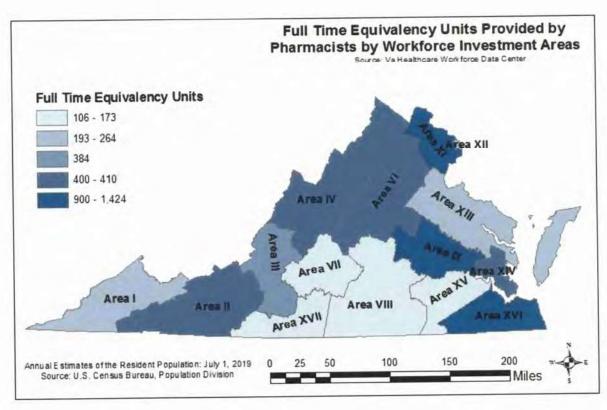
### Virginia Performs Regions

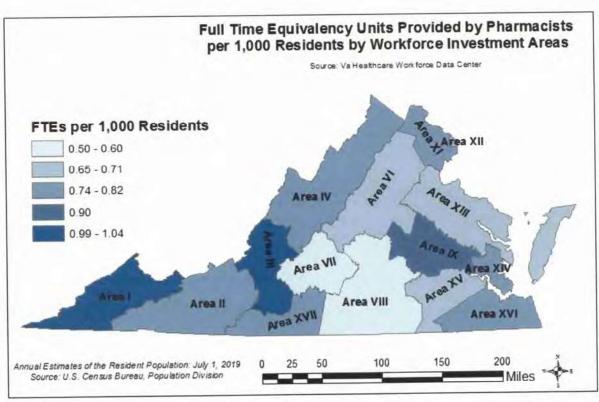


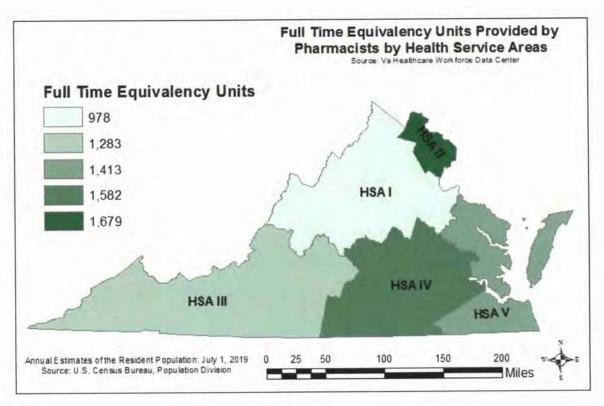


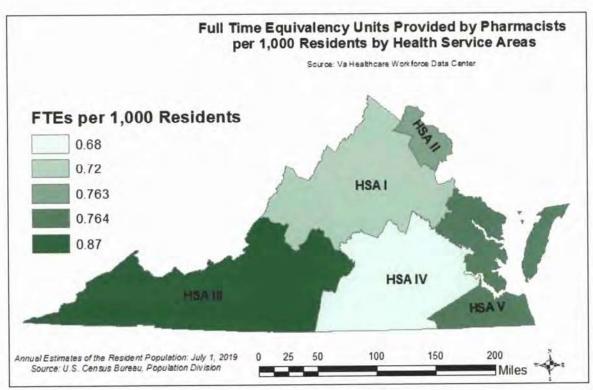


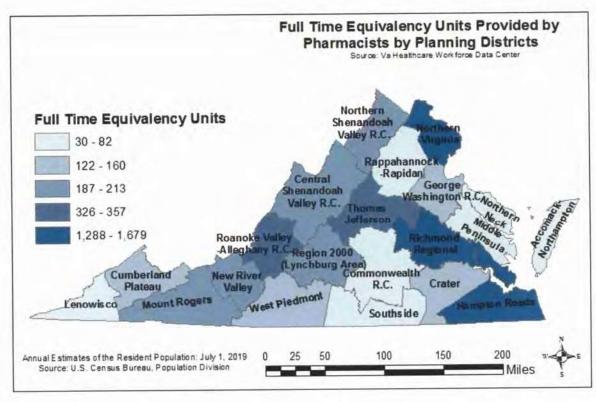


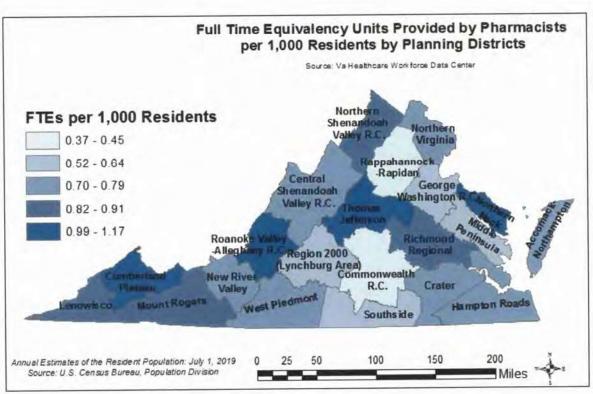












### Weights

Rural		Location We	ight	Total V	Veight
Status	#	Rate	Weight	Min	Max
Metro, 1 million+	6,646	92.88%	1.0766	1.0500	1.1378
Metro, 250,000 to 1 million	936	92.84%	1.0771	1.0505	1.1383
Metro, 250,000 or less	1,070	93.18%	1.0732	1.0467	1.1342
Urban pop 20,000+, Metro adj	118	88.14%	1.1346	1.1066	1.1991
Urban pop 20,000+, nonadj	0	NA	NA	NA	NA
Urban pop, 2,500- 19,999, Metro adj	361	89.47%	1.1176	1.0900	1.1812
Urban pop, 2,500- 19,999, nonadj	296	93.58%	1.0686	1.0422	1.1293
Rural, Metro adj	241	88.38%	1.1315	1.1035	1.1957
Rural, nonadj	133	91.73%	1.0902	1.0632	1.1521
Virginia border state/DC	2,857	90.34%	1.1069	1.0796	1.1698
Other US State	3,547	87.74%	1.1398	1.1116	1.2045

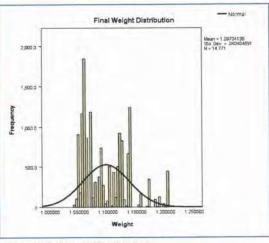
See the Methods section on the HWDC website for details on HWDC Methods:

### server of the original monthwest.

Final weights are calculated by multiplying the two weights and the overall response rate:

Age Weight x Rural Weight x Response Rate = Final Weight.

Overall Response Rate: 0.91151



Source: Va. Healthcare Workforce Data Center

		Age Weig	ht	Total \	Weight
Age	#	Rate	Weight	Min	Max
Under 30	997	87.26%	1.1460	1.1162	1.1906
30 to 34	2,523	91.52%	1.0927	1.0643	1.1352
35 to 39	2,631	92.74%	1.0783	1.0503	1.1202
40 to 44	2,107	92.88%	1.0766	1.0487	1.1186
45 to 49	1,896	93.46%	1.0700	1.0422	1.1116
50 to 54	1,815	92.40%	1.0823	1.0542	1.1244
55 to 59	1,436	92.69%	1.0789	1.0509	1.1209
60 and Over	2,800	86.25%	1.1594	1.1293	1.2045

### Virginia's Pharmacy Technician Workforce: 2020

Healthcare Workforce Data Center

February 2021

Virginia Department of Health Professions
Healthcare Workforce Data Center
Perimeter Center
9960 Mayland Drive, Suite 300
Henrico, VA 23233
804-597-4213, 804-527-4466 (fax)
E-mail: HWDC@dhp.virginia.gov

Follow us on Tumblr: www.vahwdc.tumblr.com Get a copy of this report from:

https://www.dhp.virginia.gov/PublicResources/HealthcareWorkforceDataCenter/ProfessionReports/

Nearly 11,000 Pharmacy Technicians voluntarily participated in this survey. Without their efforts, the work of the center would not be possible. The Department of Health Professions, the Healthcare Workforce Data Center, and the Board of Pharmacy express our sincerest appreciation for your ongoing cooperation.

Thank You!

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### The Pharmacy Technician Workforce At a Glance:

The Workforce	
Licensees:	14,158
Virginia's Workforce:	13,021
FTEs:	10,203

5		
1		- 1
3		

85%

### Background 40% Rural Childhood: HS Degree in VA: 74% 6 Work Non-Metro: 14%

Current Employme	nt
Employed in Prof.:	81
Hold 1 Full-Time Job:	68

90%

Survey Response Rate	
All Licensees:	77%
Renewing Practitioners:	98%

Education	
High School/GED:	56
Associate Degree:	21

Job Turnover	2	-
Switched Jobs:		4%
Employed Over	2 Yrs.:	56%

Renewing	Practitioners:	98
Demogra	aphics	

Female:

Finances	
Median Income: \$30k-	\$35k
Health Insurance:	63%
Under 40 w/ Ed. Debt:	49%

### **Primary Roles**

Satisfied?:

Medication Disp.:	57%
Administration:	5%
Supervision:	2%

60% Diversity Index: Median Age:

### Full-Time Equivalency Units Provided by Pharmacy Technicians per 1,000 Residents by Virginia Performs Region Source: Va Healthcare Workforce Data Center FTEs per 1,000 Residents 0.73 1.25 - 1.30 Valley 1.52 - 1.55 1.94 Central West Central Southwest Hampton Roads Southside Annual Estimates of the Resident Population: July 1, 2019 Source: U.S. Census Bureau, Population Division 200 100 150 50 25 Miles

### Results in Brief

This report contains the results of the 2020 Pharmacy Technician Workforce survey. Nearly 11,000 pharmacy technicians voluntarily participated in this survey. The Virginia Department of Health Professions' Healthcare Workforce Data Center (HWDC) administers the survey during the license renewal process, which takes place every December for pharmacy technicians. These survey respondents represent 77% of the 14,158 pharmacy technicians who are licensed in the state and 98% of renewing practitioners.

The HWDC estimates that 13,021 pharmacy technicians participated in Virginia's workforce during the survey period, which is defined as those who worked at least a portion of the year in the state or who live in the state and intend to return to work in the profession at some point in the future. Virginia's pharmacy technician workforce provided 10,203 "full-time equivalency units", which the HWDC defines simply as working 2,000 hours per year.

More than four out of every five pharmacy technicians are female, and the median age of this workforce is 35. In a random encounter between two pharmacy technicians, there is a 60% chance that they would be of different races or ethnicities, a measure known as the diversity index. For pharmacy technicians who are under the age of 40, the diversity index increases to 64%. Both of these values are above the comparable diversity index of 57% for Virginia's population as a whole. Two out of every five pharmacy technicians grew up in a rural area, and 27% of these professionals currently work in non-metro areas of Virginia. Overall, 14% of pharmacy technicians work in non-metro areas of the state.

More than 80% of all pharmacy technicians are currently employed in the profession, 68% hold one full-time job, and 46% work between 40 and 49 hours per week. Nine out of every ten pharmacy technicians work in the private sector, including 74% who work in for-profit establishments. The median annual income of pharmacy technicians is between \$30,000 and \$35,000. In addition, 81% of all pharmacy technicians receive at least one employer-sponsored benefit, including 63% who have access to health insurance. Nine out of every ten pharmacy technicians indicated that they are satisfied with their current work situation, including nearly half who indicated that they are "very satisfied".

### Summary of Trends

In this section, all statistics for the current year are compared to the 2015 pharmacy technician workforce. The number of licensed pharmacy technicians has fallen by 4% (14,158 vs. 14,710). In addition, the size of Virginia's pharmacy technician workforce has declined by 6% (13,021 vs. 13,834), and the number of FTEs provided by this workforce has fallen by 1% (10,203 vs. 10,327). However, renewing pharmacy technicians were more likely to respond to the survey (98% vs. 96%).

Virginia's pharmacy technicians are more likely to be female (85% vs. 84%), and the median age of this workforce has increased (35 vs. 34). At the same time, the diversity index of this workforce has increased (60% vs. 58%). This is also the case for those pharmacy technicians who are under the age of 40 (64% vs. 62%). There has been no change in the percentage of pharmacy technicians who grew up in a rural area (40%). Likewise, there has also been no change in the percentage of all pharmacy technicians who currently work in non-metro areas of the state (14%).

Pharmacy technicians are more likely to work in the profession (81% vs. 78%), hold one full-time job (68% vs. 62%), and work between 40 and 49 hours per week (46% vs. 41%). Pharmacy technicians are slightly more likely to work in the private sector (90% vs. 89%) and less likely to work for state or local governments (6% vs. 8%). As for establishment types, pharmacy technicians are relatively more likely to work in the inpatient department of hospitals (16% vs. 14%) instead of large chain community pharmacies (33% vs. 35%).

The median annual income of Virginia's pharmacy technician workforce has increased (\$30k-\$35k vs. \$20k-\$25k). In addition, pharmacy technicians are more likely to receive at least one employer-sponsored benefit (81% vs. 77%), including those who have access to health insurance (63% vs. 59%). Pharmacy technicians indicated that they are more likely to be satisfied with their current work situation (90% vs. 89%), and this also includes those pharmacy technicians who indicated that they are "very satisfied" (49% vs. 48%).

Licensee Counts		
License Status	#	%
Renewing Practitioners	10,606	75%
New Licensees	1,469	10%
Non-Renewals	2,083	15%
All Licensees	14,158	100%

Source: Va. Healthcare Workforce Data Center

HWDC surveys tend to achieve very high response rates. Nearly all renewing pharmacy technicians submitted a survey. These represent 77% of all pharmacy technicians who held a license at some point in 2020.

Response Rates				
Statistic	Non Respondents	Respondents	Response Rate	
By Age				
Under 30	1,433	2,877	67%	
30 to 34	541	1,823	77%	
35 to 39	356	1,522	81%	
40 to 44	256	1,131	82%	
45 to 49	151	997	87%	
50 to 54	152	943	86%	
55 to 59	138	734	84%	
60 and Over	235	869	79%	
Total	3,262	10,896	77%	
New Licenses				
Issued in 2020	1,065	404	28%	
Metro Status				
Non-Metro	374	1,634	81%	
Metro	2,329	8,603	79%	
Not in Virginia	559	659	54%	

Source: Va. Healthcare Workforce Data Center

### **Definitions**

- The Survey Period: The survey was conducted in December 2020.
- Target Population: All professionals who held a Virginia license at some point in 2020.
- 3. Survey Population: The survey was available to those who renewed their licenses online. It was not available to those who did not renew, including some professionals newly licensed in 2020.

Response Rates	
Completed Surveys	10,896
Response Rate, All Licensees	77%
Response Rate, Renewals	98%

Source: Va. Healthcare Workforce Data Center

## At a Glance: Licensed Pharmacy Tech. Number: 14,158 New: 10% Not Renewed: 15% Survey Response Rates All Licensees: 77% Renewing Practitioners: 98%

### At a Glance:

### Workforce

Pharmacy Tech. Workforce: 13,021 FTEs: 10,203

### **Utilization Ratios**

Licensees in VA Workforce: 92% Licensees per FTE: 1.39 Workers per FTE: 1.28

Source: Va. Healthcare Workforce Data Centre

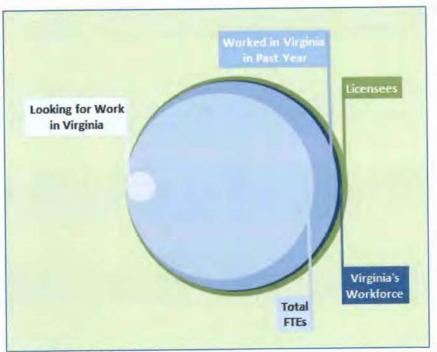
Pharmacy Tech. Workforce				
Status	#	%		
Worked in Virginia in Past Year	12,766	98%		
Looking for Work in Virginia	256	2%		
Virginia's Workforce	13,021	100%		
Total FTEs	10,203			
Licensees	14,158			

Source: Va. Healthcare Workforce Data Center

Weighting is used to estimate
the figures in this report.
Unless otherwise noted, figures
refer to the Virginia workforce
only. For more information on
the HWDC's methodology, visit:
<a href="https://www.dhp.virginia.gov/PublicResources/HealthcareWorkforceDataCenter/">https://www.dhp.virginia.gov/PublicResources/HealthcareWorkforceDataCenter/</a>

### **Definitions**

- Virginia's Workforce: A licensee with a primary or secondary work site in Virginia at any time in the past year or who indicated intent to return to Virginia's workforce at any point in the future.
- Full-Time Equivalency Unit (FTE): The HWDC uses 2,000 (40 hours for 50 weeks) as its baseline measure for FTEs.
- Licensees in VA Workforce: The proportion of licensees in Virginia's Workforce.
- Licensees per FTE: An indication of the number of licensees needed to create 1 FTE. Higher numbers indicate lower licensee participation.
- Workers per FTE: An indication of the number of workers in Virginia's workforce needed to create 1 FTE. Higher numbers indicate lower utilization of available workers.



Source: Va. Healthcore Workforce Data Center

T. T. INC.		Age	& Gend	ler		
	Male		Female		Total	
Age	#	% Male	#	% Female	#	% in Age Group
Under 30	603	17%	2,943	83%	3,546	32%
30 to 34	288	16%	1,535	84%	1,824	17%
35 to 39	196	14%	1,226	86%	1,422	13%
40 to 44	153	14%	917	86%	1,071	10%
45 to 49	111	13%	754	87%	864	8%
50 to 54	109	13%	713	87%	822	7%
55 to 59	87	14%	561	87%	648	6%
60 and Over	103	13%	700	87%	803	7%
Total	1,650	15%	9,350	85%	10,999	100%

Source: Va. Healthcare Workforce Data Center

	Race	& Ethnicit	y .		
Race/	Virginia*	Pharmacy Tech.		Pharmac Unde	
Ethnicity	%	#	%	#	%
White	61%	6,418	58%	3,688	54%
Black	19%	2,455	22%	1,635	24%
Hispanic	10%	645	6%	499	7%
Asian	7%	959	9%	587	9%
Two or More Races	3%	430	4%	339	5%
Other Race	0%	167	2%	105	2%
Total	100%	11,074	100%	6,853	100%

\*Population data in this chart is from the U.S. Census, Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States, States, and Counties: July 1, 2019.

Source: Va. Healthcare Workforce Data Center

Among the 62% of pharmacy technicians who are under the age of 40, 84% are female. In addition, the diversity index among these professionals is 64%.

### At a Glance:

	A STATE OF	-
CT-lalater-la	0 [ - ] 4	
Gender		1

% Female: 85% % Under 40 Female: 84%

### Age

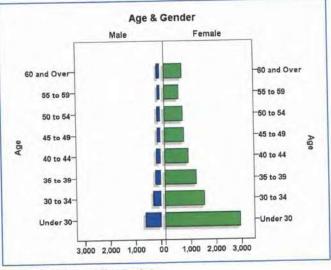
Median Age: 35
% Under 40: 62%
% 55 and Over: 13%

### Diversity

Diversity Index: 60% Under 40 Div. Index: 64%

Source: Vo. Healthcare Workforce Data Cents

In a chance encounter between two professionals, there is a 60% chance that they would be of different races or ethnicities (a measure known as the diversity index). For Virginia's population as a whole, the diversity index is 57%.

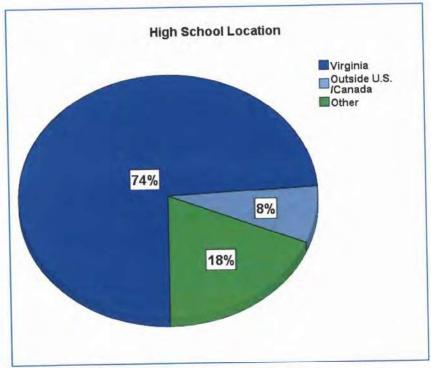


### At a Glance: Childhood 19% Urban Childhood: 40% Rural Childhood: Virginia Background 74% HS in Virginia: 72% HS in Va., Past 5 Years: **Location Choice** % Work Non-Metro: 14% % Rural to Non-Metro: 27% % Urban/Suburban

### A Closer Look:

USD	Primary Location: A Rural Urban Continuum	Rural S	Status of Chil Location	dhood
Code	Description	Rural	Suburban	Urban
	Metro Cour	nties		
1	Metro, 1 Million+	24%	52%	25%
2	Metro, 250,000 to 1 Million	58%	31%	11%
3	Metro, 250,000 or Less	63%	27%	10%
	Non-Metro Co	ounties		
4	Urban, Pop. 20,000+, Metro Adjacent	67%	23%	10%
6	Urban, Pop. 2,500-19,999, Metro Adjacent	82%	10%	8%
7	Urban, Pop. 2,500-19,999, Non-Adjacent	93%	3%	4%
8	Rural, Metro Adjacent	86%	8%	6%
9	Rural, Non-Adjacent	68%	25%	7%
	Overall	40%	41%	19%

Source: Va. Healthcare Workforce Data Center



Among all pharmacy technicians, 40% grew up in selfdescribed rural areas, and 27% of these professionals currently work in non-metro counties. Overall, 14% of pharmacy technicians are employed in nonmetro areas of the state.

### Top Ten States for Pharmacy Technician Recruitment

	High School Location					
Rank	All Pharmacy Technicians	#	Licensed in the Past Five Years	#		
1	Virginia	8,057	Virginia	2,995		
2	Outside U.S./Canada	836	Outside U.S./Canada	303		
3	New York	180	North Carolina	85		
4	North Carolina	170	Maryland	79		
5	Maryland	162	New York	66		
6	West Virginia	138	Florida	62		
7	Pennsylvania	138	Pennsylvania	58		
8	Florida	134	West Virginia	56		
9	California	113	Texas	47		
10	New Jersey	109	New Jersey	43		

Nearly three-fourths of all pharmacy technicians received their high school diploma in Virginia. Among those pharmacy technicians who obtained their initial license in the past five years, 72% also received their high school degree in the state.

Source: Va. Healthcare Workforce Data Center

Among all of Virginia's licensed pharmacy technicians, 8% did not participate in the state's workforce in 2020. However, 79% of these professionals worked at some point in the past year, including 60% who currently work as pharmacy technicians.

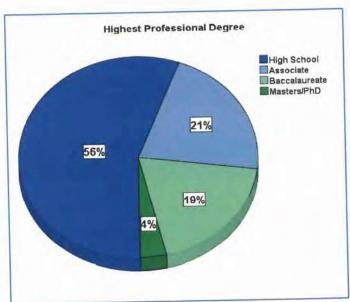
### At a Glance:

### **Not in VA Workforce**

Total: 1,130 % of Licensees: 8% Federal/Military: 4% Va. Border State/D.C.: 34%

Highest Professional Degree					
Degree	#	%			
High School/GED	6,026	56%			
Associate	2,301	21%			
Baccalaureate	2,079	19%			
Masters	350	3%			
PhD	34	0%			
Total	10,791	100%			

Source: Va. Healthcare Workforce Data Center



Source: Va. Healthcare Workforce Data Center

More than one-third of all pharmacy technicians currently carry education debt, including 49% of those under the age of 40. For those with education debt, the median amount is between \$18,000 and \$20,000.

### At a Glance:

### Education

High School/GED: 56% Associate Degree: 21%

### **Education Debt**

Carry Debt: 38%
Under Age 40 w/ Debt: 49%
Median Debt: \$18k-\$20k

wire Va. Healthcore Workforce Data Cente

More than half of all pharmacy technicians hold either a high school degree or a GED as their highest professional degree.

Ec	lucation	Debt		
Amount Carried	All Pharm. Tech.		Pharm. Tech. Under 40	
	#	%	#	%
None	5,375	62%	2,751	51%
Less than \$10,000	1,023	12%	803	15%
\$10,000-\$19,999	704	8%	560	10%
\$20,000-\$29,999	537	6%	438	8%
\$30,000 or More	1,052	12%	796	15%
Total	8,691	100%	5,348	100%

# At a Glance: Top Certifications PTCB: 64% ExCPT: 10% Total w/ Cert.: 75% National Certifications Required: 56% Pay Raise w/ Cert.: 43%

Professional Certific	ations	
Certification	#	% of Workforce
Pharmacy Technician Certification Board (PTCB)	8,396	64%
Exam for Certification of Pharmacy Technicians (ExCPT)	1,351	10%
Total with Certification	9,747	75%

Source: Va. Healthcare Workforce Data Center

Three out of every four of Virginia's pharmacy technicians hold a professional certification, including 64% who have a Pharmacy Technician Certification Board (PTCB) credential.

More than half of all pharmacy technicians work for an employer that requires a national certification as a condition of employment. Meanwhile, 43% of pharmacy technicians work for an employer that offers a pay raise for those who have obtained a national certification.

National Certifications				
Required for Employment?	#	%		
Yes	5,930	56%		
No	4,690	44%		
Pay Raise with Certification?	#	%		
Yes	4,136	43%		
No	4,684	49%		
No Certification Held	723	8%		

### At a Glance:

### **Employment**

Employed in Profession: 81% Involuntarily Unemployed: 1%

### **Positions Held**

1 Full-Time: 68% 2 or More Positions: 8%

### **Weekly Hours:**

40 to 49: 46% 60 or More: 3% Less than 30: 16%

Source: Va. Healthcare Workforce Data Center

### A Closer Look:

Current Work Status					
Status	#	%			
Employed, Capacity Unknown	25	0%			
Employed in a Pharmacy Technician- Related Capacity	8,667	81%			
Employed, NOT in a Pharmacy Technician-Related Capacity	1,604	15%			
Not Working, Reason Unknown	0	0%			
Involuntarily Unemployed	115	1%			
Voluntarily Unemployed	280	3%			
Retired	62	1%			
Total	10,753	100%			

Source: Va. Healthcare Workforce Data Center

More than 80% of all pharmacy technicians are currently employed in the profession, 68% hold one full-time job, and 46% work between 40 and 49 hours per week.

Current Positions				
Positions	#	%		
No Positions	457	4%		
One Part-Time Position	2,012	19%		
Two Part-Time Positions	140	1%		
One Full-Time Position	7,199	68%		
One Full-Time Position & One Part-Time Position	682	6%		
Two Full-Time Positions	30	0%		
More than Two Positions	34	0%		
Total	10,554	100%		

Source: Va. Healthcare Workforce Data Center

Current We	ekly Hour	S	
Hours	#	%	
0 Hours	457	4%	
1 to 9 Hours	346	3%	
10 to 19 Hours	494	5%	
20 to 29 Hours	856	8%	
30 to 39 Hours	2,770	27%	
40 to 49 Hours	4,704	46%	
50 to 59 Hours	373	4%	
60 to 69 Hours	100	1%	
70 to 79 Hours	81	1%	
80 or More Hours	117	1%	
Total	10,298	100%	

Inc	ome	
Annual Income	#	%
Volunteer Work Only	93	2%
Less than \$10,000	470	10%
\$10,000-\$14,999	277	6%
\$15,000-\$19,999	335	7%
\$20,000-\$24,999	559	11%
\$25,000-\$29,999	646	13%
\$30,000-\$34,999	854	18%
\$35,000-\$39,999	556	11%
\$40,000-\$44,999	495	10%
\$45,000-\$49,999	244	5%
\$50,000 or More	353	7%
Total	4,882	100%

Source: Va. Healthcare Workforce Data Center

At a Glan	ce:
Annual Income	
Median Income:	\$30k-\$35k
Benefits	
Health Insurance:	63%
Retirement:	58%
Satisfaction	
Satisfied:	90%
Very Satisfied:	49%

Job Satisfaction				
Level	#	%		
Very Satisfied	5,147	49%		
Somewhat Satisfied	4,325	41%		
Somewhat Dissatisfied	717	7%		
Very Dissatisfied	339	3%		
Total	10,527	100%		

Source: Va. Healthcare Workforce Data Center

The typical pharmacy technician earns between \$30,000 and \$35,000 per year. In addition, 81% of all pharmacy technicians receive at least one employer-sponsored benefit, including 63% who have access to health insurance.

Employer-S	oonsored Ber	nefits		
Benefit	#		% of Wage/Salary Employees	
Paid Leave	5,739	66%	60%	
Health Insurance	5,464	63%	57%	
Dental Insurance	5,231	60%	55%	
Retirement	5,023	58%	53%	
Group Life Insurance	3,096	36%	33%	
Signing/Retention Bonus	355	4%	4%	
At Least One Benefit	7,037	81%	74%	

<sup>\*</sup>From any employer at time of survey. Source: Va. Healthcare Workforce Data Center

Employment Instability in the Past Ye	ear	
In The Past Year, Did You?	#	%
Work Two or More Positions at the Same Time?	1,209	9%
Switch Employers or Practices?	472	4%
Experience Voluntary Unemployment?	442	3%
Work Part-Time or Temporary Positions, but Would Have Preferred a Full-Time/Permanent Position?	429	3%
Experience Involuntary Unemployment?	223	2%
Experienced At Least One	2,300	18%

Source: Va. Healthcare Workforce Data Center

Only 2% of pharmacy technicians were involuntarily unemployed at some point in the past year. For comparison, Virginia's average monthly unemployment rate was 6.0%.

Location Tenure					
	Prim	Primary		dary	
Tenure	#	%	#	%	
Not Currently Working at This Location	275	3%	178	11%	
Less than 6 Months	751	8%	218	13%	
6 Months to 1 Year	863	9%	168	10%	
1 to 2 Years	2,448	25%	354	21%	
3 to 5 Years	2,593	26%	336	20%	
6 to 10 Years	1,257	13%	179	11%	
More than 10 Years	1,746	18%	239	14%	
Subtotal	9,932	100%	1,672	100%	
Did Not Have Location	580		11,104		
Item Missing	2,509		245		
Total	13,021		13,021		

Source: Va. Healthcare Workforce Data Center

More than 90% of pharmacy technicians receive an hourly wage at their primary work location.

### At a Glance:

### Unemployment

**Experience** 

Involuntarily Unemployed: 2% Underemployed: 3%

### **Turnover & Tenure**

Switched Jobs: 4%
New Location: 20%
Over 2 Years: 56%
Over 2 Yrs., 2<sup>nd</sup> Location: 45%

### **Employment Type**

Hourly Wage:

91%

Source: Va. Healthcare Workforce Data Centre

More than half of all pharmacy technicians have worked at their primary work location for more than two years.

Employment Type				
Primary Work Site	#	%		
Hourly Wage	8,464	91%		
Salary/Commission	738	8%		
By Contract/Per Diem	44	0%		
Unpaid	25	0%		
Business/Practice Income	13	0%		
Subtotal	9,283	100%		

<sup>&</sup>lt;sup>1</sup> As reported by the U.S. Bureau of Labor Statistics. The non-seasonally adjusted monthly unemployment rate fluctuated between a low of 2.8% and a high of 10.8%. The unemployment rate from December 2020 was still preliminary at the time of publication.

### At a Glance: Concentration Top Region: 25% Top 3 Regions: 68% Lowest Region: 2%

Locations

2 or More (Past Year): 19% 2 or More (Now\*): 15%

ource: Va. Healthoure Workforce Data Center

More than two-thirds of all pharmacy technicians work in Central Virginia, Northern Virginia, and Hampton Roads.

Num	ber of V	Vork L	ocations	
Locations	Work Locations in Past Year		Wor Locati Nov	rk ons
	#	%	#	%
0	253	3%	453	5%
1	7,992	79%	8,132	80%
2	1,184	12%	1,009	10%
3	590	6%	492	5%
4	40	0%	14	0%
5	21	0%	12	0%
6 or More	48	1%	17	0%
Total	10,129	100%	10,129	100%

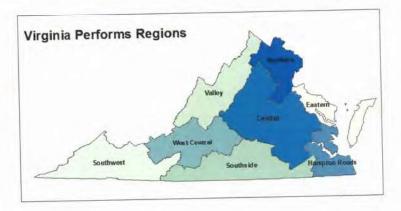
<sup>\*</sup>At the time of survey completion, December 2020.

Source: Va. Healthcare Workforce Data Center

### A Closer Look:

Regional Distril Virginia Performs Region	Prim Loca	ary	Secondary Location	
	#	%	#	%
Central	2,420	25%	436	24%
Northern	2,137	22%	411	23%
Hampton Roads	2,096	21%	372	21%
West Central	1,137	12%	193	11%
Southwest	711	7%	102	6%
Valley	647	7%	83	5%
Southside	423	4%	86	5%
Eastern	183	2%	34	2%
Virginia Border State/D.C.	29	0%	31	2%
Other U.S. State	19	0%	51	3%
Outside of the U.S.	3	0%	7	0%
Total	9,805	100%	1,806	100%
Item Missing	2,636		112	

Source: Va. Healthcare Workforce Data Center



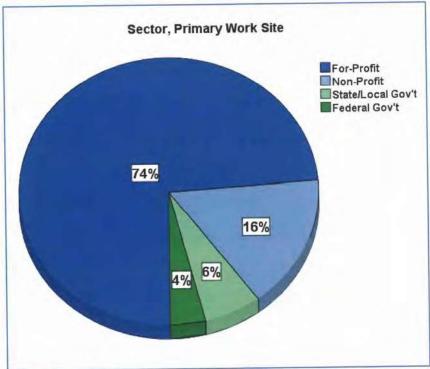
Among all pharmacy technicians, 15% currently have multiple work locations, while 19% have had multiple work locations at some point in the past year.

Loca	tion Sec	tor			
Sector	Prim Loca		Secondary Location		
	#	%	#	%	
For-Profit	6,866	74%	1,134	73%	
Non-Profit	1,512	16%	232	15%	
State/Local Government	577	6%	102	7%	
Veterans Administration	49	1%	5	0%	
U.S. Military	180	2%	43	3%	
Other Federal Gov't	124	1%	27	2%	
Total	9,308	100%	1,543	100%	
Did Not Have Location	580		11,104		
Item Missing	3,133		375		

Source: Va. Healthcare Workforce Data Center



Nine out of every ten pharmacy technicians work in the private sector, including 74% who work in a for-profit establishment. Another 6% of pharmacy technicians work for a state or local government.

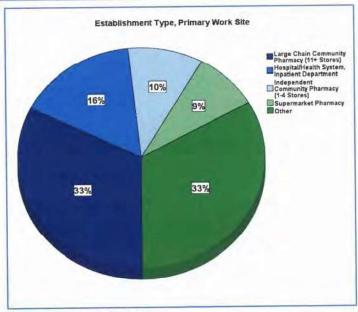


Location	Type			
Establishment Type	Primary Location		Secondary Location	
	#	%	#	%
Large Chain Community Pharmacy (11+ Stores)	2,972	33%	534	36%
Hospital/Health System, Inpatient Department	1,452	16%	174	12%
Independent Community Pharmacy (1-4 Stores)	900	10%	112	7%
Supermarket Pharmacy	783	9%	110	7%
Hospital/Health System, Outpatient Department	632	7%	65	4%
Nursing Home/Long-Term Care	399	4%	49	3%
Mass Merchandiser (i.e. Big Box Store)	356	4%	48	3%
Clinic-Based Pharmacy	263	3%	41	3%
Pharmacy Benefit Administration (e.g. PBM, Managed Care)	212	2%	18	1%
Home Health/Infusion	130	1%	12	1%
Mail Service Pharmacy	110	1%	16	1%
Small Chain Community Pharmacy (5-10 Stores)	104	1%	38	3%
Academic Institution	49	1%	32	2%
Wholesale Distributor	43	0%	12	1%
Manufacturer	28	0%	16	1%
Other	703	8%	219	15%
Total	9,136	100%	1,496	100
Did Not Have Location	580		11,104	

One-third of all pharmacy technicians in Virginia work in large chain community pharmacies, while another 16% work in the inpatient department of hospitals.

Source: Va. Healthcare Workforce Data Center

For pharmacy technicians who also have a secondary work location, 36% are employed by large chain community pharmacies, while 12% are employed at the inpatient department of hospitals.



### At a Glance: (Primary Locations)

### **Typical Time Allocation**

Medication Disp.: 70%-79%
Administration: 10%-19%
Teaching: 1%-9%

### Roles

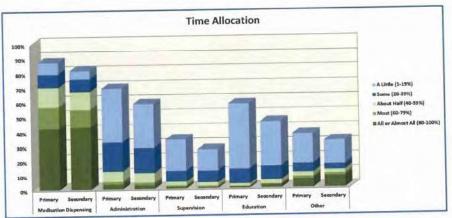
Medication Disp.: 57%
Administration: 5%
Supervision: 2%
Education: 1%

### Patient Care Pharm. Tech.

Median Admin. Time: 1%-9% Avg. Admin. Time: 1%-9%

Source: Va. Healthcare Workforce Data Cente

### A Closer Look:



Source: Va. Healthcare Workforce Data Center

Nearly 60% of all pharmacy technicians fill a medication dispensing & customer service role, defined as spending 60% or more of their time in that activity.

			Tin	ne Allo	cation					
Time Spent	Medication Disp.		Admin.		Supervision		Education		Other	
	Pri. Site	Sec. Site	Pri. Site	Sec. Site	Pri. Site	Sec. Site	Pri. Site	Sec. Site	Pri. Site	Sec. Site
All or Almost All (80-100%)	42%	43%	3%	3%	1%	1%	1%	2%	6%	8%
Most (60-79%)	15%	12%	2%	2%	1%	1%	0%	1%	1%	2%
About Half (40-59%)	14%	12%	7%	7%	3%	3%	2%	3%	3%	3%
Some (20-39%)	9%	9%	20%	17%	8%	8%	10%	9%	6%	4%
A Little (1-19%)	8%	5%	37%	30%	21%	14%	44%	30%	20%	16%
None (0%)	13%	19%	31%	42%	66%	73%	42%	55%	63%	68%

Retirement Expectations					
Expected Retirement	А	50 and Over			
Age	#	%	#	%	
Under Age 50	2,050	24%	-		
50 to 54	457	5%	39	2%	
55 to 59	531	6%	96	5%	
60 to 64	1,409	17%	413	24%	
65 to 69	2,093	25%	750	43%	
70 to 74	520	6%	220	13%	
75 to 79	130	2%	36	2%	
80 and Over	116	1%	24	1%	
I Do Not Intend to Retire	1,131	13%	175	10%	
Total	8,437	100%	1,753	100%	

Source: Va. Healthcare Workforce Data Center

### At a Glance: **Retirement Expectations All Pharmacy Technicians** Under 65: 53% Under 60: 36% Pharm. Tech. 50 and Over Under 65: 31% Under 60: **Time Until Retirement** Within 2 Years: Within 10 Years: 14% Half the Workforce: By 2045

More than half of all pharmacy technicians expect to retire by the age of 65. Among pharmacy technicians who are age 50 and over, 31% expect to retire by the age of 65.

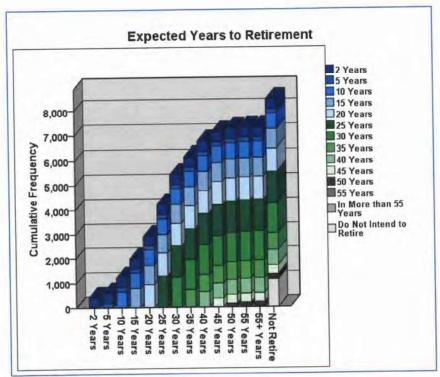
Within the next two years, 20% of all pharmacy technicians expect to pursue additional educational opportunities, and 7% expect to increase their patient care hours.

Future Plans		
Two-Year Plans:	#	%
Decrease Participat	ion	
Leave Profession	1,130	9%
Leave Virginia	522	4%
<b>Decrease Patient Care Hours</b>	204	2%
Decrease Teaching Hours	88	1%
Increase Participati	on	
Pursue Additional Education	2,610	20%
Increase Patient Care Hours	949	7%
Increase Teaching Hours	704	5%
Return to the Workforce	137	1%

By comparing retirement expectation to age, we can estimate the maximum years to retirement for pharmacy technicians. Only 5% of pharmacy technicians expect to retire in the next two years, while 14% expect to retire within the next ten years. Half of the current workforce expect to retire by 2045.

Time to Retirement				
Expect to Retire Within	#	%	Cumulative %	
2 Years	409	5%	5%	
5 Years	163	2%	7%	
10 Years	639	8%	14%	
15 Years	771	9%	23%	
20 Years	937	11%	35%	
25 Years	1,278	15%	50%	
30 Years	1,223	14%	64%	
35 Years	707	8%	73%	
40 Years	616	7%	80%	
45 Years	356	4%	84%	
50 Years	140	2%	86%	
55 Years	41	0%	86%	
In More than 55 Years	25	0%	87%	
Do Not Intend to Retire	1,131	13%	100%	
Total	8,437	100%		

Source: Va. Healthcare Workforce Data Center



Using these estimates, retirement will begin to reach 10% of the current workforce every five years by 2040. Retirement will peak at 15% of the current workforce around 2045 before declining to below 10% of the current workforce again around 2055.

Source: Va. Healthcare Workforce Data Center

### At a Glance:

FTES

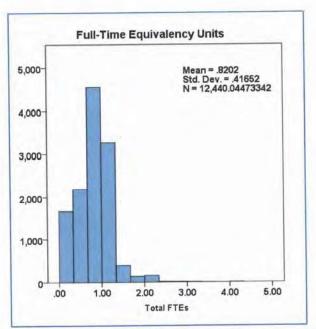
10,203 Total: 1.195 FTEs/1,000 Residents<sup>2</sup>: 0.82 Average:

### Age & Gender Effect

Age, Partial Eta<sup>2</sup>: Gender, Partial Eta<sup>2</sup>: Negligible

> Partial Eta<sup>2</sup> Explained: Partial Eta<sup>2</sup> is a statistical measure of effect size.

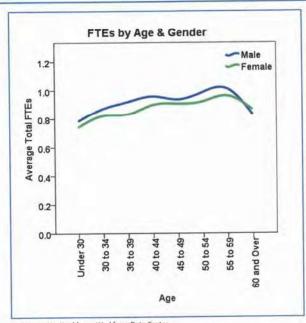
### A Closer Look:



Source: Va. Healthcare Workforce Data Center

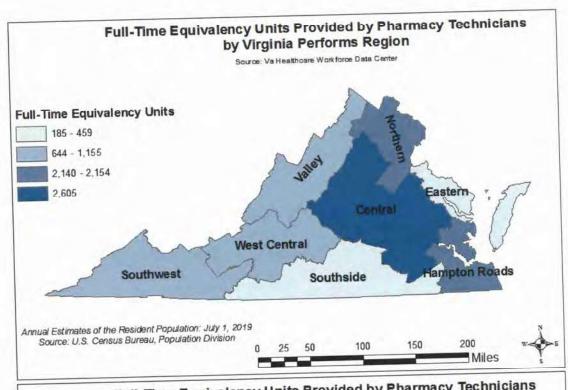
The typical pharmacy technician provided 0.89 FTEs in 2020, or approximately 36 hours per week for 50 weeks. Although FTEs appear to vary by age and gender, statistical tests did not verify that a difference exists.3

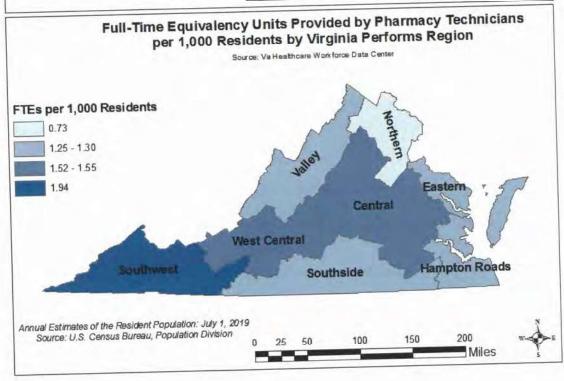
	Average	Mediar
	Age	
Under 30	0.76	0.89
30 to 34	0.80	0.82
35 to 39	0.82	0.80
40 to 44	0.86	0.91
45 to 49	0.85	0.89
50 to 54	0.90	0.92
55 to 59	0.97	0.97
60 and Over	0.83	0.80
	Gender	
Male	0.87	0.96
Female	0.83	0.91

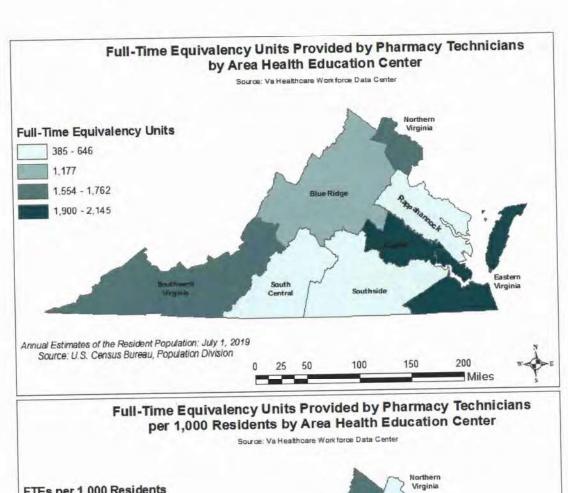


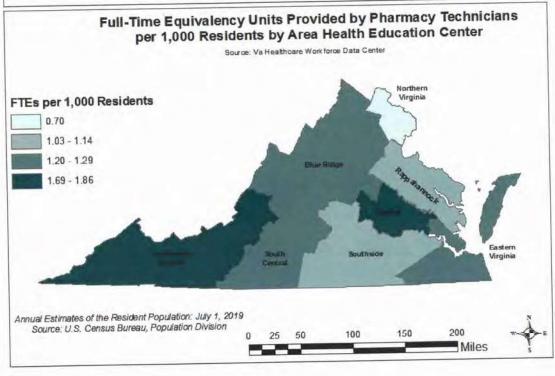
<sup>&</sup>lt;sup>2</sup> Number of residents in 2019 was used as the denominator.

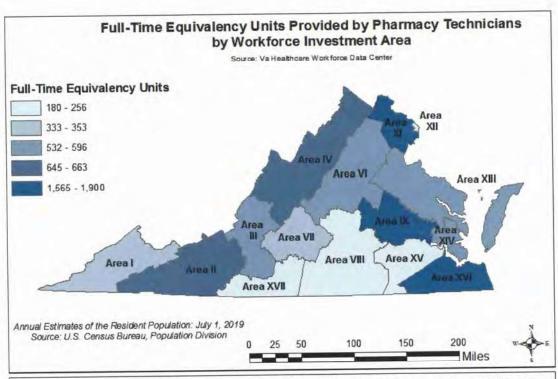
<sup>&</sup>lt;sup>3</sup> Due to assumption violations in Mixed between-within ANOVA (Levene's Test was significant).

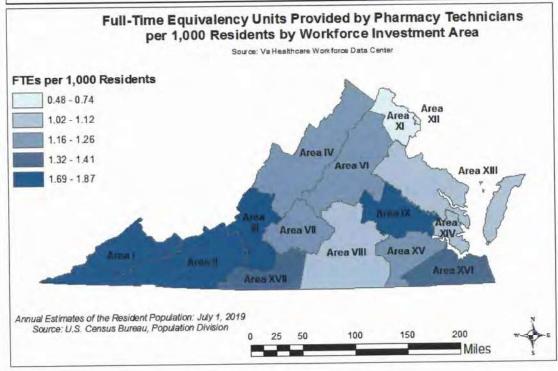


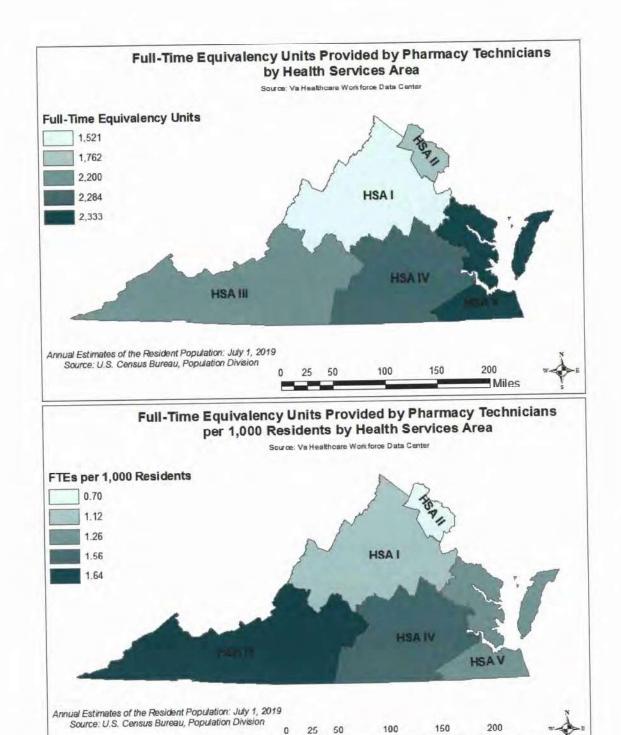




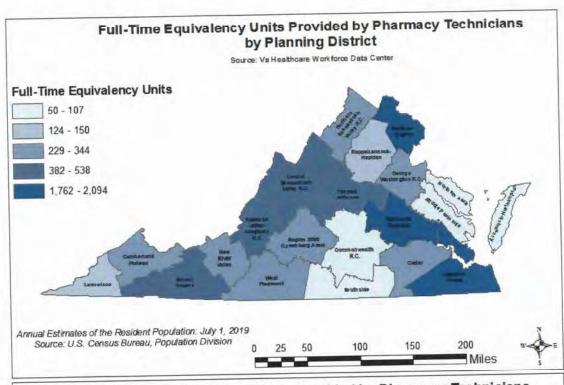


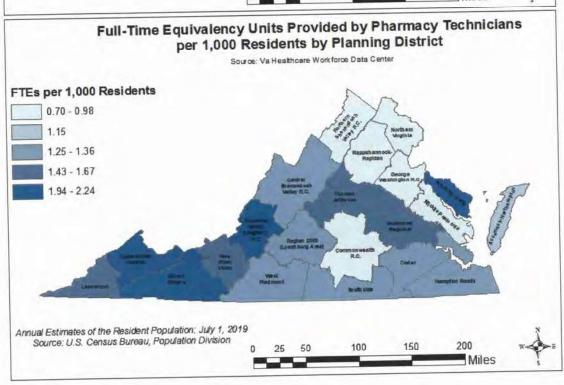






Miles





## Weights

THE PARTY OF THE P	Lo	Location Weight			Total Weight	
Rural Status	#	Rate	Weight	Min.	Max.	
Metro, 1 Million+	8,382	78.37%	1.276	1.131	1.471	
Metro, 250,000 to 1 Million	1,286	79.63%	1.256	1.113	1.448	
Metro, 250,000 or Less	1,264	79.91%	1.251	1.109	1.443	
Urban, Pop. 20,000+, Metro Adj.	295	87.12%	1.148	1.017	1.323	
Urban, Pop. 20,000+, Non- Adj.	0	NA	NA	NA	NA	
Urban, Pop. 2,500-19,999, Metro Adj.	708	79.66%	1.255	1.112	1.447	
Urban, Pop. 2,500-19,999, Non-Adj.	513	80.51%	1.242	1.101	1.432	
Rural, Metro Adj.	282	79.43%	1.259	1.116	1.451	
Rural, Non-Adj.	210	83.81%	1.193	1.057	1.376	
Virginia Border State/D.C.	767	60.63%	1.649	1.462	1.902	
Other U.S. State	451	43.02%	2.325	2.060	2.680	

Source: Va. Healthcare Workforce Data Center

The second second		Age Weight			/eight
Age	#	Rate	Weight	Min.	Max.
Under 30	4,310	66.75%	1.498	1.323	2.680
30 to 34	2,364	77.12%	1.297	1.146	2.320
35 to 39	1,878	81.04%	1.234	1.090	2.208
40 to 44	1,387	81.54%	1.226	1.083	2.194
45 to 49	1,148	86.85%	1.151	1.017	2.060
50 to 54	1,095	86.12%	1.161	1.026	2.078
55 to 59	872	84.17%	1.188	1.049	2.125
60 and Over	1,104	78.71%	1.270	1.122	2.273

Source: Va. Healthcare Workforce Data Center

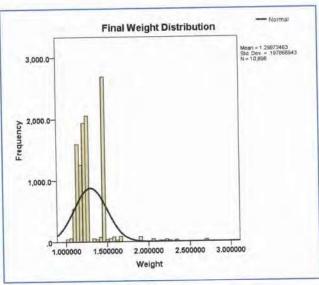
See the Methods section on the HWDC website for details on HWDC methods:

https://www.dhp.yorinu.gov/PunicRossuces/Heall https://kforte@at>Center/

Final weights are calculated by multiplying the two weights and the overall response rate:

Age Weight x Rural Weight x Response Rate = Final Weight.

Overall Response Rate: 0.769600



Source: Va. Healthcare Workforce Data Center

# Agenda Item: Regulatory Actions - Chart of Regulatory Actions As of September 13, 2021

Charten / Stone Information		
Chapter	AND DESCRIPTION OF THE PERSON NAMED IN	Action / Stage Information
[18 VAC 110 - 20]	Regulations Governing the Practice of Pharmacy	Reporting of immunizations to VIIS [Action 5598]
		Emergency - Register Date: 10/12/20 [Stage 9064]
[18 VAC 110 - 20]	Regulations Governing the Practice of Pharmacy	Use of medication carousels and RFID technology [Action 5480]
		Proposed - Register Date: 8/16/21 Comment closes 10/15/21
[18 VAC 110 - 20]	Regulations Governing the Practice of Pharmacy	Implementation of legislation for pharmacists initiating treatment [Action 5604]
		Proposed - At Secretary's Office for 88 days
[18 VAC 110 - 20]	Regulations Governing the Practice of Pharmacy	Prohibition against incentives to transfer prescriptions [Action 4186]
		Final - At Governor's Office for 1209 days
[18 VAC 110 - 20]	Regulations Governing the Practice of Pharmacy	Scheduling of chemicals in Schedule I [Action 5750]
		Final - Register Date: 8/16/21 Effective: 9/15/21
[18 VAC 110 - 21]	Regulations Governing the Licensure of Pharmacists and Registration of Pharmacy Technicians	Implementation of legislation for registration of pharmacy technicians [Action 5603]
		Proposed - At Secretary's Office for 88 days
[18 VAC 110 - 30]	Regulations for Practitioners of the Healing Arts to Sell Controlled Substances	Limited license for prescribing Schedule VI drugs in non-profit clinics [Action 5605]
		Proposed - Register Date: 8/16/21 Comment closes: 10/15/21
[18 VAC 110 - 60]	Regulations Governing Pharmaceutical Processors	Amendments resulting from SB976 of the 2020 General Assembly [Action 5629]
		Emergency/NOIRA - Register Date: 3/1/21
[18 VAC 110 - 60]	Regulations Governing Pharmaceutical Processors	Response to petition for rulemaking [Action 5611]
		NOIRA - Register Date: 3/1/21 [Stage 9081]

[18 VAC 110 - 60]	Regulations Governing Pharmaceutical Processors	Registered agents and wholesale distribution [Action 5398]	
		Proposed - Register Date: 3/1/21	
[18 VAC 110 - 60]	Regulations Governing Pharmaceutical Processors	Prohibition of products for vaping or inhalation with vitamin E acetate [Action 5452]	
		Proposed - Register Date: 5/24/21	
[18 VAC 110 - 60]	Regulations Governing Pharmaceutical Processors	Changes relating to 2021 legislation and previous amendments [Action 5765]	
		Final - Register Date: 8/2/21 Effective: 9/1/21	

## Department of Health Professions Regulatory/Policy Actions – 2021 General Assembly

**EMERGENCY REGULATIONS:** 

Legislative source	Mandate	Promulgating agency	Board adoption date	Effective date Within 280 days of enactment
HB2079	Authorization for a pharmacist to initiate treatment certain drugs, devices, controlled paraphernalia, and supplies and equipment described in § 54.1-3303.1	Pharmacy	9/24/21	

EXEMPT REGULATORY ACTIONS

Legislative source	Mandate	Promulgating agency	Adoption date	Effective date
HB1988	Changes to pharmaceutical processors	Pharmacy	7/6/21	By Sept. 1st
HB2218/SB1333	Sale of cannabis botanical products	Pharmacy	7/6/21	By Sept. 1st
HB2218/SB1333	Revision of fee schedule for pharmaceutical processors and dispensaries to cover cost of new data system	Pharmacy	No planned adoption date	
SB1464	Deletion of sections of 322 with chemicals now scheduled in Code	Pharmacy	9/24/21	

NON-REGULATORY ACTIONS

Legislative source	Affected agency	Action needed	Due date
HB1304/SB830 (2020)	Pharmacy	To convene a workgroup composed of stakeholders including representatives of the Virginia Association of Chain Drug Stores, Virginia Pharmacists Association, Virginia Healthcareer Association, Virginia Society of Health-System Pharmacies, and any other stakeholders that the Board of Pharmacy may deem appropriate to develop recommendations related to the addition of duties and tasks that a pharmacy technician registered by the Board may perform.	November 1, 2021
HB1987	Boards with prescriptive authority	Revise guidance documents with references to 54.1-3303	As boards meeting after July 1
HB2079	Pharmacy (with Medicine & VDH)	To establish protocols for the initiation of treatment with and dispensing and administering of drugs, devices, controlled paraphernalia, and supplies and equipment available over-the-counter by pharmacists in accordance with § 54.1-3303.1. Such	Concurrent with emergency regulations

		protocols shall address training and continuing education for pharmacists regarding the initiation of treatment with and dispensing and administering of drugs, devices, controlled paraphernalia, and supplies and equipment.	
HB2079	Pharmacy (with Medicine)	To convene a work group to provide recommendations regarding the development of protocols for the initiation of treatment with and dispensing and administering of drugs, devices, controlled paraphernalia, and supplies and equipment by pharmacists to persons 18 years of age or older, including (i) controlled substances, devices, controlled paraphernalia, and supplies and equipment for the treatment of diseases or conditions for which clinical decision-making can be guided by a clinical test that is classified as waived under the federal Clinical Laboratory Improvement Amendments of 1988, including influenza virus, urinary tract infection, and group A Streptococcus bacteria, and (ii) drugs approved by the U.S. Food and Drug Administration for tobacco cessation therapy, including nicotine replacement therapy. The work group shall focus its work on developing protocols that can improve access to these treatments while maintaining patient safety.	November 1, 2021
HB2218/SB1333	Pharmacy	To work on acquisition of a new data system/analysis of costs	

## **Future Policy Actions:**

HB2559 (2019) - requires the Secretary of Health and Human Resources to convene a work group to identify successes and challenges of the electronic prescription requirement and offer possible recommendations for increasing the electronic prescribing of controlled substances that contain an opioid and to report to the Chairmen of the House Committee on Health, Welfare and Institutions and the Senate Committee on Education and Health by November 1, 2022.

# Agenda Item: Adoption of Emergency Regulations – Pharmacists initiating treatment

## Included in your agenda package are:

Copy of the legislation passed in the 2021 General Assembly (HB2079) – note 3<sup>rd</sup> enactment clause requiring adoption of regulations within 280 days.

Copy of the draft emergency regulations as recommended by the Workgroup (see minutes from the Workgroup meeting on August 9, 2021 and August 17, 2020 in agenda package)

## Board action:

Adoption of emergency regulations as required by the 3rd enactment clause in the legislation. Amendments that are underlined in black are the current emergency regulations from the 2020 legislation and workgroup. Amendments in RED are the recommended amendments from the 2021 legislation and workgroup.

## VIRGINIA ACTS OF ASSEMBLY -- 2021 SPECIAL SESSION I

### **CHAPTER 214**

An Act to amend and reenact §§ 54.1-3300 and 54.1-3303.1 of the Code of Virginia, relating to pharmacists; initiation of treatment; certain drugs and devices.

[H 2079]

Approved March 18, 2021

Be it enacted by the General Assembly of Virginia: 1. That §§ 54.1-3300 and 54.1-3303.1 of the Code of Virginia are amended and reenacted as follows:

§ 54.1-3300. Definitions.

As used in this chapter, unless the context requires a different meaning:

"Board" means the Board of Pharmacy.

"Collaborative agreement" means a voluntary, written, or electronic arrangement between one pharmacist and his designated alternate pharmacists involved directly in patient care at a single physical location where patients receive services and (i) any person licensed to practice medicine, osteopathy, or podiatry together with any person licensed, registered, or certified by a health regulatory board of the Department of Health Professions who provides health care services to patients of such person licensed to practice medicine, osteopathy, or podiatry; (ii) a physician's office as defined in § 32.1-276.3, provided that such collaborative agreement is signed by each physician participating in the collaborative agreement; (iii) any licensed physician assistant working under the supervision of a person licensed to practice medicine, osteopathy, or podiatry; or (iv) any licensed nurse practitioner working in accordance with the provisions of § 54.1-2957, involved directly in patient care which authorizes cooperative procedures with respect to patients of such practitioners. Collaborative procedures shall be related to treatment using drug therapy, laboratory tests, or medical devices, under defined conditions or limitations, for the purpose of improving patient outcomes. A collaborative agreement is not required for the management of patients of an inpatient facility.

"Dispense" means to deliver a drug to an ultimate user or research subject by or pursuant to the lawful order of a practitioner, including the prescribing and administering, packaging, labeling, or

compounding necessary to prepare the substance for delivery.

"Pharmacist" means a person holding a license issued by the Board to practice pharmacy,

"Pharmacy" means every establishment or institution in which drugs, medicines, or medicinal chemicals are dispensed or offered for sale, or a sign is displayed bearing the word or words "pharmacist," "pharmacy," "apothecary," "drugstore," "druggist," "drugs," "medicine store," "drug sundries," "prescriptions filled," or any similar words intended to indicate that the practice of pharmacy is being conducted.

"Pharmacy intern" means a student currently enrolled in or a graduate of an approved school of pharmacy who is registered with the Board for the purpose of gaining the practical experience required

to apply for licensure as a pharmacist.
"Pharmacy technician" means a person registered with the Board to assist a pharmacist under the

pharmacist's supervision.

"Pharmacy technician trainee" means a person registered with the Board for the purpose of performing duties restricted to a pharmacy technician as part of a pharmacy technician training program

in accordance with the provisions of subsection G of § 54.1-3321.

"Practice of pharmacy" means the personal health service that is concerned with the art and science of selecting, procuring, recommending, administering, preparing, compounding, packaging, and dispensing of drugs, medicines, and devices used in the diagnosis, treatment, or prevention of disease. whether compounded or dispensed on a prescription or otherwise legally dispensed or distributed, and shall include (i) the proper and safe storage and distribution of drugs; (ii) the maintenance of proper records; (iii) the responsibility of providing information concerning drugs and medicines and their therapeutic values and uses in the treatment and prevention of disease; (iv) the management of patient care under the terms of a collaborative agreement as defined in this section; and (v) the initiating of treatment with or dispensing or administering of certain drugs, devices, or controlled paraphernalia in accordance with the provisions of § 54.1-3303.1.

"Supervision" means the direction and control by a pharmacist of the activities of a pharmacy intern or a pharmacy technician whereby the supervising pharmacist is physically present in the pharmacy or in the facility in which the pharmacy is located when the intern or technician is performing duties restricted to a pharmacy intern or technician, respectively, and is available for immediate oral

communication.

Other terms used in the context of this chapter shall be defined as provided in Chapter 34

(§ 54.1-3400 et seq.) unless the context requires a different meaning.

§ 54.1-3303.1. Initiating of treatment with and dispensing and administering of controlled

substances by pharmacists.

A. Notwithstanding the provisions of § 54.1-3303, a pharmacist may initiate treatment with, dispense, or administer the following drugs and, devices, controlled paraphernalia, and other supplies and equipment to persons 18 years of age or older in accordance with a statewide protocol developed by the Board in collaboration with the Board of Medicine and the Department of Health and set forth in regulations of the Board:

1. Naloxone or other opioid antagonist, including such controlled paraphernalia, as defined in

§ 54.1-3466, as may be necessary to administer such naloxone or other opioid antagonist;

2. Epinephrine;

3. Injectable or self-administered hormonal contraceptives, provided the patient completes an assessment consistent with the United States Medical Eligibility Criteria for Contraceptive Use;

4. Prenatal vitamins for which a prescription is required;

5. Dietary fluoride supplements, in accordance with recommendations of the American Dental Association for prescribing of such supplements for persons whose drinking water has a fluoride content below the concentration recommended by the U.S. Department of Health and Human Services; and

6. Medications Drugs as defined in § 54.1-3401, devices as defined in § 54.1-3401, controlled paraphernalia as defined in § 54.1-3466, and other supplies and equipment available over-the-countercovered by the patient's health carrier when the patient's out-of-pocket cost is lower than the out-of-pocket cost to purchase an over-the-counter equivalent of the same drug, device, controlled paraphernalia, or other supplies or equipment;

7. Vaccines included on the Immunization Schedule published by the Centers for Disease Control and Prevention or that have a current emergency use authorization from the U.S. Food and Drug

Administration:

8. Tuberculin purified protein derivative for tuberculosis testing; and

9. Controlled substances for the prevention of human immunodeficiency virus, including controlled substances prescribed for pre-exposure and post-exposure prophylaxis pursuant to guidelines and

recommendations of the Centers for Disease Control and Prevention.

B. A pharmacist who initiates treatment with or dispenses or administers a drug or device pursuant to this section shall notify the patient's primary health care provider that the pharmacist has initiated treatment with such drug or device or that such drug or device has been dispensed or administered to the patient, provided that the patient consents to such notification. If the patient does not have a primary health care provider, the pharmacist shall counsel the patient regarding the benefits of establishing a relationship with a primary health care provider and, upon request, provide information regarding primary health care providers, including federally qualified health centers, free clinics, or local health departments serving the area in which the patient is located. If the pharmacist is initiating treatment with, dispensing, or administering injectable or self-administered hormonal contraceptives, the pharmacist shall counsel the patient regarding seeking preventative care, including (i) routine well-woman visits, (ii) testing for sexually transmitted infections, and (iii) pap smears,

C. A pharmacist who administers a vaccination pursuant to subdivision A 7 shall report such administration to the Virginia Immunization Information System in accordance with the requirements of

\$ 32,1-46.01.

2. That the Board of Pharmacy, in collaboration with the Board of Medicine and the Department of Health, shall establish protocols for the initiation of treatment with and dispensing and administering of drugs, devices, controlled paraphernalia, and supplies and equipment available over-the-counter by pharmacists in accordance with § 54.1-3303.1 of the Code of Virginia, as amended by this act, by November 1, 2021. The Board of Pharmacy shall convene a work group composed of an equal number of representatives of the Boards of Pharmacy and Medicine to recommend protocols to the Board of Pharmacy for review and implementation. No pharmacist shall initiate treatment with or dispense or administer such drug, device, controlled paraphernalia, or supply or equipment until such protocols have been adopted. Such protocols shall address training and continuing education for pharmacists regarding the initiation of treatment with and dispensing and administering of drugs, devices, controlled paraphernalia, and supplies and equipment pursuant to § 54.1-3303.1 of the Code of Virginia, as amended by this act.

3. That the Board of Pharmacy, in collaboration with the Board of Medicine, shall promulgate regulations to implement the provisions of this act to be effective within 280 days of its enactment. Such regulation shall include authorization for a pharmacist to initiate treatment with or dispense or administer drugs, devices, controlled paraphernalia, and supplies and equipment described in § 54.1-3303.1 of the Code of Virginia, as amended by this act, in accordance with protocols adopted by the Board of Pharmacy. The Board of Pharmacy shall convene a work group composed of an equal number of representatives of the Boards of Pharmacy and Medicine to

develop recommendations and propose language for inclusion in such regulations.

4. That the Board of Pharmacy shall convene a work group composed of an equal number of

representatives of the Boards of Pharmacy and Medicine as well as representatives of the Board of Medicine, the Department of Health, schools of medicine and pharmacy located in the Commonwealth, and such other stakeholders as the Board of Pharmacy may deem appropriate to provide recommendations regarding the development of protocols for the initiation of treatment with and dispensing and administering of drugs, devices, controlled paraphernalia, and supplies and equipment by pharmacists to persons 18 years of age or older, including (i) controlled substances, devices, controlled paraphernalia, and supplies and equipment for the treatment of diseases or conditions for which clinical decision-making can be guided by a clinical test that is classified as waived under the federal Clinical Laboratory Improvement Amendments of 1988, including influenza virus, urinary tract infection, and group A Streptococcus bacteria, and (ii) drugs approved by the U.S. Food and Drug Administration for tobacco cessation therapy, including nicotine replacement therapy. The work group shall focus its work on developing protocols that can improve access to these treatments while maintaining patient safety and report its recommendations to the Governor and the Chairmen of the Joint Commission on Health Care, the House Committee on Health, Welfare and Institutions, and the Senate Committee on Education and Health by November 1, 2021.

## **Board of Pharmacy**

## Implementation of legislation for pharmacists initiating treatment

### Chapter 20

### Regulations Governing the Practice of Pharmacy

## 18VAC110-20-150. Physical standards for all pharmacies.

A. The prescription department shall not be less than 240 square feet. The patient waiting area or the area used for counseling, devices, cosmetics, and proprietary medicines shall not be considered a part of the minimum 240 square feet. The total area shall be consistent with the size and scope of the services provided.

B. Access to stock rooms, rest rooms, and other areas other than an office that is exclusively used by the pharmacist shall not be through the prescription department. A rest room in the prescription department, used exclusively by pharmacists and personnel assisting with dispensing functions, may be allowed provided there is another rest room outside the prescription department available to other employees and the public. This subsection shall not apply to prescription departments in existence prior to November 4, 1993.

C. The pharmacy shall be constructed of permanent and secure materials. Trailers or other moveable facilities or temporary construction shall not be permitted.

D. The entire area of the location of the pharmacy practice, including all areas where drugs are stored, shall be well lighted and well ventilated; the proper storage temperature shall be maintained to meet USP-NF specifications for drug storage.

E. The prescription department counter work space shall be used only for the compounding and dispensing of drugs and necessary recordkeeping.

F. A sink with hot and cold running water shall be within the prescription department. A pharmacy issued a limited-use permit that does not stock prescription drugs as part of its operation is exempt from this requirement.

G. Adequate refrigeration facilities equipped with a monitoring thermometer for the storage of drugs requiring cold storage temperature shall be maintained within the prescription department if the pharmacy stocks such drugs.

H. A pharmacy stocking drugs requiring cold storage temperature shall record the temperature daily and adjust the thermostat as necessary to ensure an appropriate temperature range. The record shall be maintained manually or electronically for a period of two years.

I. The physical settings of a pharmacy in which a pharmacist initiates treatment with, dispenses, or administers drugs, and devices, controlled paraphernalia, and other supplies and equipment pursuant to § 54.1-3303.1 of the Code of Virginia and 18VAC110-21-46 shall protect patient confidentiality and comply with the Health Insurance Portability and Accountability Act, 42 U.S.C. § 1320d et seq.

## 18VAC110-21-46. Initiation of treatment by a pharmacist.

A. Pursuant to § 54.1-3303.1 of the Code of Virginia, a pharmacist may initiate treatment with, dispense, or administer the following drugs, and devices, controlled paraphernalia, and other supplies and equipment to persons 18 years of age or older:

1. Naloxone or other opioid antagonist, including such controlled paraphernalia, as defined in § 54.1-3466 of the Code of Virginia, as may be necessary to administer such naloxone or other opioid antagonist;

#### 2. Epinephrine;

- 3. Injectable or self-administered hormonal contraceptives, provided the patient completes
  an assessment consistent with the United States Medical Eligibility Criteria for
  Contraceptive Use;
- 4. Prenatal vitamins for which a prescription is required;
- 5. Dietary fluoride supplements, in accordance with recommendations of the American Dental Association for prescribing of such supplements for persons whose drinking water has a fluoride content below the concentration recommended by the U.S. Department of Health and Human Services; and
- 6. Medications Drugs as defined in §54.1-3401, devices as defined in §54.1-3401, controlled paraphernalia as defined in §54.1-3466, and other supplies and equipment available over-the-counter, covered by the patient's health carrier when the patient's out-of-pocket cost is lower than the out-of-pocket cost to purchase an over-the-counter equivalent of the same drug, device, controlled paraphernalia, or other supplies or equipment;
- 7. Vaccines included on the Immunization Schedule published by the Centers for Disease

  Control and Prevention or that have a current emergency use authorization from the U.S.

  Food and Drug Administration;
- 8. Tuberculin purified protein derivative for tuberculosis testing; and
- 9. Controlled substances for the prevention of human immunodeficiency virus, including controlled substances prescribed for pre-exposure and post-exposure prophylaxis pursuant to guidelines and recommendations of the Centers for Disease Control and Prevention.
- B. Pharmacists who initiate treatment with, dispense, or administer a drug, or device, controlled paraphernalia, or other supplies or equipment pursuant to subsection A shall:

- 1. Follow the statewide protocol adopted by the board for each drug, or device, controlled paraphernalia, or other supplies or equipment.
- 2. Notify the patient's primary health care provider that treatment has been initiated with such drug or device or that such drug or device has been dispensed or administered to the patient, provided that the patient consents to such notification. If the patient does not have a primary health care provider, the pharmacist shall counsel the patient regarding the benefits of establishing a relationship with a primary health care provider and, upon request, provide information regarding primary health care providers, including federally qualified health centers, free clinics, or local health departments serving the area in which the patient is located. If the pharmacist is initiating treatment with, dispensing, or administering injectable or self-administered hormonal contraceptives, the pharmacist shall counsel the patient regarding seeking preventative care, including (i) routine well-woman visits, (ii) testing for sexually transmitted infections, and (iii) pap smears. If the pharmacist is administering a vaccine pursuant to this section, the pharmacist shall report such administration to the Virginia Immunization Information System in accordance with the requirements of §32.1-46.01.
- 3. Maintain a patient record for a minimum of six years following the last patient encounter with the following exceptions:
  - a. Records that have previously been transferred to another practitioner or health care provider or provided to the patient or the patient's personal representative; or
  - b. Records that are required by contractual obligation or federal law to be maintained for a longer period of time.
- 4. Perform the activities in a manner that protects patient confidentiality and complies with the Health Insurance Portability and Accountability Act, 42 U.S.C. § 1320d et seq.

Agenda Item: Adoption of Protocols - Pharmacists initiating treatment

## Included in your agenda package are:

Copy of the summary of legislation passed in the 2021 General Assembly

Copy of the Statewide Protocols as recommended by the Workgroup (see minutes from the Workgroup meeting on August 9, 2021 in agenda package)

## Board action:

Adoption of Protocols (Board should review all protocols and adopt in a block unless there are amendments to one or more of the protocols).

# HB 2079 Pharmacists; initiation of treatment with and dispensing and administering of drugs and devices.

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#### SUMMARY AS PASSED HOUSE:

Pharmacists; initiation of treatment; certain drugs and devices. Expands provisions governing the initiation of treatment with and dispensing and administering of drugs and devices by pharmacists to allow the initiation of treatment with and dispensing and administering of drugs, devices, and controlled paraphernalia to persons 18 years of age or older, in accordance with protocols developed by the Board of Pharmacy in collaboration with the Board of Medicine and the Department of Health, and of (i) vaccines included on the Immunization Schedule published by the Centers for Disease Control and Prevention; (ii) tuberculin purified protein derivative for tuberculosis testing; (iii) controlled substances for the prevention of human immunodeficiency virus, including controlled substances prescribed for pre-exposure and post-exposure prophylaxis pursuant to guidelines and recommendations of the Centers for Disease Control and Prevention; and (iv) drugs, devices, controlled paraphernalia, and other supplies and equipment available over-the-counter, covered by the patient's health carrier when the patient's out-of-pocket cost is lower than the out-of-pocket cost to purchase an over-the-counter equivalent of the same drug, device, controlled paraphernalia, or other supplies or equipment. The bill requires any pharmacist who administers a vaccination pursuant to clause (i) to report such administration to the Virginia Immunization Information System. The bill also (a) requires the Board of Pharmacy, in collaboration with the Board of Medicine and the Department of Health, to establish protocols for the initiation of treatment with and dispensing and administering of drugs, devices, and controlled paraphernalia by pharmacists in accordance with the provisions of the bill by November 1, 2021; (b) requires the Board of Pharmacy, in collaboration with the Board of Medicine, to adopt regulations within 280 days of the bill's enactment to implement the provisions of the bill; and (c) requires the Board of Pharmacy to convene a work group composed of an equal number of representatives of the Boards of Pharmacy and Medicine and other stakeholders to provide recommendations regarding the developing of protocols for the initiation of treatment with and dispensing and administering of certain drugs and devices by pharmacists to persons 18 years of age or older.

#### VIRGINIA BOARD OF PHARMACY

#### Pharmacist Vaccine Statewide Protocol

Consistent with the Immunization Schedule published by the Centers for Disease Control and Prevention (CDC) or current emergency use authorization from the U.S. Food and Drug Administration, a pharmacist may issue a prescription to initiate treatment with, dispense, or administer the vaccines to persons 18 years of age or older.

#### PHARMACIST EDUCATION AND TRAINING

Prior to issuing a prescription to initiate treatment with, dispensing, or administering vaccine under this protocol, the pharmacist shall be knowledgable of the manufacturer's instructions for use or instructions indicated in the emergency use authorization, the current Immunization Schedule published by the CDC, how to properly identify which vaccines a patient may require, storage and handling requirements, and how to counsel the patient on possible adverse reactions.

#### PATIENT INCLUSION CRITERIA

Pharmacist shall review applicable medical history prior to administering vaccine to ensure vaccine administration is appropriate for patient's medical condition(s), e.g., pregnancy, immunocompromised state. Patients eligible for vaccine under this protocol:

- An individual, 18 years of age or older, whose immunization history is incomplete or unknown and for whom a vaccine is recommended at his or her age in accordance with the Child and Adolescent Immunization Schedule or the Adult Immunization Schedule published by the CDC;
- An individual, 18 years of age or older, whose immunization history is incomplete or unknown and for whom a vaccine with current emergency use authorization from the U.S. Food and Drug Administration is recommended by the CDC; and,
- An individual, 18 years of age or older, preparing to travel to a destination for which immunization history is incomplete or unknown and for whom a vaccine is recommended by the CDC prior to traveling to the specific destination.

#### PATIENT EXCLUSION CRITERIA

Patients NOT eligible for vaccine under this protocol:

- An individual less than 18 years of age;
- An individual for whom a vaccine is not recommended by the CDC <u>such as based on the patient's medical condition(s)</u>; or
- An individual who is fully vaccinated.

#### COUNSELING

The pharmacist shall ensure the patient or patient's agent is provided with written information regarding the vaccine and possible adverse reactions.

#### RECORDKEEPING

The pharmacist shall maintain records in accordance with Regulation 18VAC110-21-46 and report such administration to the Virginia Immunization Information System in accordance with the requirements of § 32.1-46.01.

### NOTIFICATION OF PRIMARY CARE PROVIDER

In accordance with 54.1-3303.1 of the Code of Virginia, the pharmacist shall notify the patient's primary care provider. If the patient does not have a primary care provider, the pharmacist shall counsel the patient regarding the benefits of establishing a relationship with a primary health care provider and, upon request, provide information regarding primary health care providers, including federally qualified health centers, free clinics, or local health departments serving the area in which the patient is located.

Revised: September 24, 2021

### VIRGINIA BOARD OF PHARMACY

## Pharmacist Statewide Protocol to Lower Out-of-Pocket Expenses

For the purpose of lowering a patient's out-of-pocket health care costs, a pharmacist may issue a prescription to initiate treatment with, dispense, or administer the following drugs to persons 18 years of age or older:

- Medications covered by the patient's health carrier when the patient's out-of-pocket cost is lower than the out-of-pocket cost to purchase an over-the-counter equivalent of the same drug.
- Drugs as defined in § 54.1-3401, devices as defined in § 54.1-3401, controlled paraphernalia as defined in § 54.1-3466, and other supplies and equipment available overthe-counter, covered by the patient's health carrier when the patient's out-of-pocket cost is lower than the out-of-pocket cost to purchase an over-the-counter equivalent of the same drug, device, controlled paraphernalia, or other supplies or equipment

## PHARMACIST EDUCATION AND TRAINING

Prior to issuing a prescription to initiate treatment with, dispensing, or administering medications drugs, devices, controlled paraphernalia, and other supplies and equipment under this protocol, the pharmacist shall be knowledgable of the manufacturer's instructions for use and follow any relevant evidence-based guidelines.

#### PATIENT INCLUSION CRITERIA

Patients eligible for medications drugs, devices, controlled paraphernalia, and other supplies and equipment under this protocol:

- An individual, 18 years of age or older, whose over-the-counter medication drug, device, controlled paraphernalia, and other supply or equipment is covered by the patient's health carrier and when the patient's out-of-pocket cost for the prescribed drug item is lower than the out-of-pocket cost to purchase the same drug over-the-counter;
- An individual, 18 years of age or older, whose over-the-counter medication drug would cost
  more out-of-pocket than a prescribed prescription-only medication drug that is a
  therapeutically equivalent drug product<sup>1</sup>, as defined in § 54.1-3401, as the over-the-counter
  medication drug.

#### EXAMPLES OF INCLUDED DEVICES AND CONTROLLED PARAPHERNALIA

Examples of devices and controlled paraphernalia for which a pharmacist may issue a prescription to initiate treatment under the qualifying conditions of this protocol include:

- · Diabetic blood sugar testing supplies,
- · Injection supplies;
- Hypodermic needles and syringes;
- Nebulizers and associated supplies;
- Inhalation spacers;
- Peak flow meters:
- International Normalized Ratio (INR) testing supplies;
- Enteral nutrition supplies;

Ostomy products and supplies

#### RECORDKEEPING

The pharmacist shall maintain records in accordance with Regulation 18VAC110-21-46.

## NOTIFICATION OF PRIMARY CARE PROVIDER

In accordance with 54.1-3303.1 of the Drug Control Act, the pharmacist shall notify the patient's primary care provider. If the patient does not have a primary care provider, the pharmacist shall counsel the patient regarding the benefits of establishing a relationship with a primary health care provider and, upon request, provide information regarding primary health care providers, including federally qualified health centers, free clinics, or local health departments serving the area in which the patient is located.

"Therapeutically equivalent drug products" means drug products that contain the same active ingredients and are identical in strength or concentration, dosage form, and route of administration and that are classified as being therapeutically equivalent by the U.S. Food and Drug Administration pursuant to the definition of "therapeutically equivalent drug products" set forth in the most recent edition of the Approved Drug Products with Therapeutic Equivalence Evaluations, otherwise known as the "Orange Book.", § 54.1-3401.



Adopted: 9/24/2021 Effective Date:

## VIRGINIA BOARD OF PHARMACY

### **Preventive Care**

## HIV Pre-Exposure Prophylaxis (PrEP) Statewide Protocol

Consistent with the manufacturer's instructions for use approved by the US Food and Drug Administration (FDA), a pharmacist may issue a prescription to initiate treatment with, dispense, or administer the following drugs and devices to persons 18 years of age or older:

 Controlled substances for the prevention of human immunodeficiency virus, including controlled substances prescribed for pre-exposure prophylaxis pursuant to guidelines and recommendations of the Centers for Disease Control and Prevention.

## STANDARDIZED PATIENT ASSESSMENT PROCESS ELEMENTS:

- Utilize the standardized PrEP Patient Intake Form (pg. 2-3)
- Utilize the standardized PrEP Assessment and Treatment Care Pathway (pg.4-8)
- Utilize the standardized PrEP Provider Fax (pg.10)

## PHARMACIST EDUCATION AND TRAINING

Prior to issuing a prescription to initiate treatment with, dispensing, or administering
controlled substances for post-exposure prophylaxis under this protocol, the pharmacist
shall be knowledgeable of the manufacturer's instructions for use and shall have completed
a comprehensive training program related to the prescribing and dispensing of HIV
prevention medications, to include related trauma-informed care.

## Pre-Exposure Prophylaxis (PrEP) Self-Screening Patient Intake Form - DRAFT

(CONFIDENTIAL-Protected Health Information)

Date/		Age
egal Name	Preferred Name _	ion (circle) M / F / Other
ex Assigned at Birth (circle) M / F	Gender Identificat	her
referred Pronouns (circle) She/Her/Hers, He/Him/His, They/Th	iem/ men, ze/m/m/s, oc	1101
treet AddressFma	il Address	
hone ( ) Ema	ne ( )	Fax ( )
ealthcare Provider Name Photo Photo	rance Provider Name	
ny allergies to medications? Yes / No If ye	s, please list	
ackground Information: These questions are highly confiden		
or you and what Human Immunodeficiency Virus (HIV) and Sex	ually Transmitted Infectio	n (STI) testing is
ecommended.		
o you answer yes to any of the following?	2.40	
1. Do you sexually partner with men, women, transgender, or	non-binary people?	7 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Please estimate how often you use condoms for sex. Please	estimate the date of the	last time you had sex without
condom.		
% of the time		
last sex without a condom		
3. Do you have oral sex?		
<ul> <li>Giving- you perform oral sex on someone else</li> </ul>		
Receiving- someone performs oral sex on you		
4. Do you have vaginal sex?		
<ul> <li>Receptive- you have a vagina and you use it for vagina</li> </ul>	al sex	
<ul> <li>Insertive- you have a penis and you use it for vaginal s</li> </ul>	sex	
5. Do you have anal sex?		
Receptive- someone uses their penis to perform anal	sex on you	
Insertive- you use your penis to perform anal sex on s	someone else	
6. Do you inject drugs?		
7. Are you in a relationship with an HIV-positive partner?		
8. Do you exchange sex for money or goods? (includes paying	g for sex)	
9. Do you use poppers (inhaled nitrates) and/or methamphet	amine for sex?	
Medical History: These questions are highly confidential and	help the pharmacist to de	etermine if PrEP is right for yo
Have you ever tested positive for Human Immunodeficience	v Virus (HIV)?	□ yes □ no
1. Have you ever tested positive for Human minutioderrees.	natitis B?	□ yes □ no
2. Do you see a (healthcare provider) for management of He	If ves when:	□ yes □ no
Have you ever received an immunization for Hepatitis B?	nyes, when	Date of vaccine/_/_
If no, would you like a Hepatitis B immunization toda	idnove2	ges no
4. Do you see a healthcare provider for problems with your k	iuileys:	□ yes □ no
5. Do you take non-steroid anti-inflammatory drugs (NSAIDS	) (	E yes a no
<ul> <li>Includes: Advil/Motrin (ibuprofen), aspirin, Aleve (n.</li> </ul>	aproxen)	□ yes □ no
6. Are you currently or planning to become pregnant or brea	streeding?	
7. Do you have any other medical problems the pharmacist s	should know? If yes, list	□ yes □ no
them here:		

## Pre-Exposure Prophylaxis (PrEP) Self-Screening Patient Intake Form - DRAFT

(CONFIDENTIAL-Protected Health Information)

## **Testing and Treatment:**

<ul> <li>I understand that I must get an HIV test every 90 days to get my PrEP prescription filled. The pharmacist must document a negative HIV test to fill my PrEP prescription.</li> <li>I may be able to have tests performed at the pharmacy.</li> <li>I can bring in my HIV test results, showing negative HIV and/or STI testing, within the last 2 weeks.         <ul> <li>I brought my labs in today</li> <li>Yes No</li> </ul> </li> <li>I understand that if I have condomless sex within 2 weeks before and between the time I get my HIV test and when I get my PrEP that the test results may not be accurate. This could lead to PrEP drug resistance if I become HIV positive and I will need a repeat HIV test within one month.</li> </ul>	□ Yes □ No
2. I understand that I must complete STI screening at least every 6 months while on PrEP. Undiagnosed STIs will increase the risk of getting HIV.  I understand if I have condomless sex between the time I get my STI testing and when I get my PrEP that the results may not be accurate.	□ Yes □ No
3. I understand that the effectiveness of PrEP is dependent on my taking all my doses. Missing doses increases the risk of getting HIV.	□ Yes □ No
Please list any questions you have for the pharmacy staff:	
Patient Signature: Date	e:

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	Name	Date of Birth	Age Today's Date	
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## Background Information/ HIV and STI risk factors:

Document that a risk factor is present (circle below) and refer to the notes and considerations below to evaluate the risk factor(s). If a person has one or more risk factor, PrEP is recommended. The HIV Warmline offers consultations for providers from HIV specialists and is available every day at: (855) 448-7737. For information about PrEP, please visit the CDC website.

Risk Factor:	Notes and considerations
1. Sexual partners	<ul> <li>MSM activity is highest risk for HIV.</li> <li>Men who have insertive vaginal sex may not be at high risk of HIV unless other risk factors are present.</li> </ul>
2. Estimated condom use% of the time// last sex without a condom	<ul> <li>Condomless sex greatly increases risk of HIV and STIs.</li> <li>For patients with condomless sex within the last 72 hours, consider Post-Exposure Prophylaxis (PEP).</li> <li>Condomless sex within last 14 days, repeat HIV test in one month.</li> </ul>
3. Oral sex	<ul> <li>Oral sex is not considered high risk for HIV unless there is blood or ulcerations in the mouth or genitals.</li> <li>STIs such as gonorrhea and chlamydia can inhabit the mouth and should be screened for in persons who have oral sex.</li> </ul>
4. Vaginal sex	<ul> <li>Receptive vaginal sex can be high risk for HIV.</li> <li>Insertive vaginal sex is not considered high risk for HIV unless other risk factors are present.</li> </ul>
Receptive anal sex has the most risk of HIV of any sex act.     Insertive anal sex has high risk for HIV.     STIs such as gonorrhea and chlamydia can inhabit the rectum and should be screened in who have anal sex.	
6. Injection drug use	<ul> <li>Injection drug use is high risk for HIV. Consider referral for syringe exchange or sale of clean syringes.</li> </ul>
7. HIV-positive partner	<ul> <li>People living with HIV who have undetectable viral loads will not transmit HIV.</li> <li>For partners of people living with HIV, consider partner's HIV viral load when recommending PrEP.</li> </ul>
8. Exchanging sex for money or goods	People who buy or sell sex are at high risk for HIV.
9. Popper and/or methamphetamine use	<ul> <li>Popper (inhaled nitrates) and/or methamphetamine use is associated with an increased risk of HIV</li> <li>Recommend adequate lubrication in persons who use poppers for sex.</li> </ul>

## 1. Is one or More Risk Factor Present: □ yes □ no

- If yes, HIV PrEP is recommended. Proceed to next section: Testing.
- If no, HIV PrEP is not recommended. Refer to a healthcare provider.

(CONFIDENTIAL- Protected Health Information)

Name	Date of Birth	Age Today's Date
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## Background Information/ HIV and STI risk factors:

Document that a risk factor is present (circle below) and refer to the notes and considerations below to evaluate the risk factor(s). If a person has one or more risk factor, PrEP is recommended. The HIV Warmline offers consultations for providers from HIV specialists and is available every day at: (855) 448-7737. For information about PrEP, please visit the CDC website.

Risk Factor:	Notes and considerations
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2. Estimated condom use% of the time// last sex without a condom	<ul> <li>Condomless sex greatly increases risk of HIV and STIs.</li> <li>For patients with condomless sex within the last 72 hours, consider Post-Exposure Prophylaxis (PEP).</li> <li>Condomless sex within last 14 days, repeat HIV test in one month.</li> </ul>
3. Oral sex	<ul> <li>Oral sex is not considered high risk for HIV unless there is blood or ulcerations in the mouth of genitals.</li> <li>STIs such as gonorrhea and chlamydia can inhabit the mouth and should be screened for in persons who have oral sex.</li> </ul>
4. Vaginal sex	<ul> <li>Receptive vaginal sex can be high risk for HIV.</li> <li>Insertive vaginal sex is not considered high risk for HIV unless other risk factors are present.</li> </ul>
5. Anal sex	<ul> <li>Receptive anal sex has the most risk of HIV of any sex act.</li> <li>Insertive anal sex has high risk for HIV.</li> <li>STIs such as gonorrhea and chlamydia can inhabit the rectum and should be screened in persons</li> </ul>
6. Injection drug use	<ul> <li>Injection drug use is high risk for HIV. Consider referral for syringe exchange or sale of clean syringes.</li> </ul>
7. HIV-positive partner	<ul> <li>People living with HIV who have undetectable viral loads will not transmit HIV.</li> <li>For partners of people living with HIV, consider partner's HIV viral load when recommending PrEP.</li> </ul>
8. Exchanging sex for money or goods	People who buy or sell sex are at high risk for HIV.
9. Popper and/or methamphetamine use	<ul> <li>Popper (inhaled nitrates) and/or methamphetamine use is associated with an increased risk of HIV</li> <li>Recommend adequate lubrication in persons who use poppers for sex.</li> </ul>

1. Is one or More Risk Factor Present:	□ yes □ no
1. 15 0112 01 11121	

- If yes, HIV PrEP is recommended. Proceed to next section: Testing.
- If no, HIV PrEP is not recommended. Refer to a healthcare provider.

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ne pharmacist must verify appropri	riate labs are o	complete. I	talics below i	ndicate nee	d for referral.	
ic pharmacist mass 12-17 - 17						Needs
est Name	Date of Tes	t	Result			referral
HIV ag/ah (4th gen) test:					rminate $\square$ negative	
Peactive and indeterminate tes	ts are an auto	matic refe	rral to county	health or to	ne patient's healtho	are provider f
confirmatory testing. NOTE: HI	√ test must be	performe	d within the	4 days prio	r to prescribing and	e
Syphilis/Treponemal antibody: Reactive treponemal antibody care provider for follow-up and	testing will res	sult in an a	□ reactivutomatic refe	rral to coun	ty health or the pa	tient's primary
	/	/	positiv	e □ negati	ve	□ Yes
Hepatitis B surface antigen:  Positive surface antigen indicate or a specialist physician.	tes either acut	e or chroni	c Hepatitis B	and PrEP sh	ould be referred to	county health
<ul> <li>Hepatitis C surface antigen:</li> </ul>		1	positi	ve □ negat	ive	□ Yes
Positive surface antigen indic	ates either aci	ite or chroi	nic Hepatitis	C and PrEP s	hould be referred t	o county heal
	ates entirer act	ate or emo				
or a specialist physician.	1	1	n posit	ive □ nega	tive	□ Yes
<ul> <li>Pregnancy:</li> <li>Positive result indicates prequ</li> </ul>		D should be				ysician.
	iancy and PTE	/	rejerred to	ounty neur		□ Yes
Gonorrhea/Chlamydia:				Rectal test	result.	
Urinalysis result:		geal test re				
□ reactive □ indeterminate					□ indeterminate	
□ negative	□ negat	ive		□ negative		al to county
All reactive or indeterminate of	hlamydia and,	or gonorri	hea results w	ill result in a	in automatic rejerri	al to county
health or the patient's health	are provider f	or evaluati	on and treatr	nent.		- V
Renal function (CrCl):	/_	_/	_	mL/min	□ CrCl > 60 mL/m	
SCrmg/dL					□ CrCl 30-60 mL/ı	
					□ CrCl < 30 mL/m	
CrCl > 60mL/min: Kidney function alafenamide) indicated; <i>CrCl &lt;30</i> Descovy (emtricitabine & tenofovi	mL/min: refer	ral for eval	l 30-60mL/mi luation/follov	n: Only Des v-up. NOTE:	covy <u>(emtricitabine</u> Concurrent NSAID	& tenofovir use would fav
ALT/AST:	/	1	ALT	u/	L AST	ı/L
Baseline + at 4-6 weeks						
recommended.						
	1	1	□ Prese	ent		□ Yes
<ul> <li>Signs/symptoms of STI not otherwise specified:</li> </ul>						- V
<ul> <li>Condomless sex in past two</li> </ul>			□ Yes			□ Yes
weeks		/				
. Is HIV ab/ag 4th gen test cor	nnlete?	□ ves/no	n-reactive	□ ves/re	active or indetern	ninate 🗆 r
If yes and non-reactive: Proc						
If yes and non-reactive: Proc If yes and reactive or indeterr	ningte: RDH m	any NOT n	rescribe PrEP	. Patient sh	ould be referred to	healthcare
provider. NOTE: Sample langu	uage below.					
• If no. obtain HIV ab/ag 4th ge	n test. Repeat	question #	2 once result	s are availa	bie.	

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3	Are all	required	labs comp	lete?	ves	n no
	MIC all	I CUMII CM	IGNS COLLIN	1000	100	

- If yes, pharmacist may prescribe PrEP and next labs due in 90 days. Proceed to next section: Medical History.
- If no, pharmacist may prescribe PrEP, but patient needs to complete all required labs and bring them in within 30 days. Proceed to next section: Medical History.

## Sample language for reactive or indeterminate tests:

Your HIV test has tested reactive (or indeterminate). This is not a diagnosis of HIV or AIDS. We will need to confirm that this is the true result or to confirm a result with a more specific test before a diagnosis can be made. We are going to refer you to your health care provider (or your county health department) so that they may perform the confirmatory test and clarify the result. Until you have had your confirmatory test, we are going to recommend you abstain from any condomless sexual activity. We will delay starting (or refilling) your PrEP until we have confirmation, you're HIV negative.

## Sample language for reactive (indeterminate) STI tests:

Your STI test has tested reactive (or indeterminate). This is not a diagnosis of (chlamydia, gonorrhea, or syphilis). We will need to confirm that this is the true result or to confirm a result with a more specific test before a diagnosis can be made. We are going to refer you to your health care provider (or your county health department) so that they may perform the confirmatory test and clarify the result. Until you have had your confirmatory test, we are going to recommend you abstain from any condomless sexual activity including giving or receiving oral sex.

Medical History: The following are referral conditions and considerations for pharmacist prescribing of PrEP. If a patient has one or more contraindications, the pharmacist must refer the patient to a specialist for consultation or management of PrEP.

## Medical history factor

- 1. Positive HIV test Needs Referral:
  - □ yes □ no
- 2. Presence of Hepatitis B infection

Needs Referral:

- □ yes □ no 3. Impaired kidney
- function (<30mL/min) Needs Referral: □ yes □ no
- 4. Other medications Needs Referral:
- □ yes □ no
- 5. NSAID use Precaution- Counseled on limiting use:
  - □ yes □ no
- 6. Hepatitis B vaccinated If not, would the patient like to be vaccinated?
  - pyes no
- 7. Pregnant or breastfeeding

- Notes and considerations
- A positive or indeterminate HIV test either indicates HIV infection, a false positive, or a result requiring specialist interpretation.
- Confirmatory testing is beyond the testing capacity of the community pharmacist and the patient should be referred for PrEP management.

REFERRAL CONDITIONS

- Truvada and Descovy are treatments for Hepatitis B. In patients with Hepatitis B who stop PrEP, this may cause a HepB disease flare.
- People with HepB infection must have their PrEP managed by a gastroenterologist or infectious disease specialist.
- Truvada is approved for patients with a CrCl >60mL/min.
- Consider Descovy in cis-gender men and male to female transgender women who have risk factors for kidney disease with a CrCl >30mL/min, but less than 60mL/min.
- Pharmacist prescribing of PrEP is contraindicated for patients who are under the care of a specialist for chronic kidney disease.
- Evaluate for comorbid medications that can be nephrotoxic or decrease bone mineral density.
- For cis-gender men and male to female transgender women who are on medications that could be nephrotoxic or could lower bone mineral density, consider Descovy over Truvada.

#### CONSIDERATIONS

- Tenofovir use in conjunction with NSAIDs may increase the risk of kidney damage.
- Concurrent use is not contraindicated, but patient should be counseled on limiting NSAID use.
- Vaccination for Hepatitis B is preferred, but lack of vaccination is not a contraindication for PrEP. Counsel on risk factors for Hepatitis B and recommend vaccination.
- If patient would like to be vaccinated, proceed according to OAR 855-019-0280.
- Pregnancy and breastfeeding are not contraindications for PrEP.
- Women at risk of HIV who are also pregnant are at higher risk of intimate partner violence.
- Truvada is preferred due to better data in these populations.

## Pre-Exposure Prophylaxis (PrEP) Assessment and Treatment Care Pathway - DRAFT (CONFIDENTIAL- Protected Health Information)

4. Are one or More Refe	erral Condition(s)	Present?	yes 🗆 no
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- If yes, HIV PrEP is recommended but pharmacists are not authorized to initiate treatment in accordance with this
  protocol. Refer the patient for further evaluation and management of PrEP by the patient's healthcare provider or
  appropriate specialist.
- If no, HIV PrEP is recommended and pharmacists are authorized to initiate treatment and dispense PrEP in accordance with this protocol. Proceed to next sections: Regimen Selection and Prescription.

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Regimen Selection:

Considerations*	Preferred regimen	
Cis-gender male or male to female transgender woman.  Both Truvada and Descovy are FDA approved in these populations. May prescribe based on patient preference.	May choose Truvada o Descovy	
Cis-gender female or female to male transgender man.  Only Truvada is FDA approved in these populations.  If patient has low bone mineral density or renal function that would preclude Truvada use, but has risk factors for HIV, refer the patient to a specialist for PrEP management.	Truvada	
NSAID use  • If patient is male or a male to female transgender woman, consider Descovy	Descovy	
Patient has some kidney impairment (CrCl <60mL/min) but is not under care of nephrologist.  • If patient is male or male to female transgender woman, consider Descovy	Descovy	
Patient has decreased bone mineral density or on medications that affect bone mineral density.  • If patient is male or male to female transgender woman, consider Descovy.	Descovy	
Patient is pregnant or breastfeeding  Descovy has not been studied in these populations. Truvada is approved in these populations.	Truvada	

<sup>\*</sup>generic versions are acceptable in all cases if available.

### Counseling (at minimum):

- Proper use of medication dosage, schedule and potential common and serious side effects (and how to mitigate)
- The importance of medication adherence with relation to efficacy of PrEP/PEP and alternative dosing regimens (i.e. PrEP on demand, PrEP 2-1-1)
- Individualized strategies for optimum adherence
- Behaviorally based adherence improvement strategies, such as pairing medication with established part of daily routine, pill boxes, reminder for daily dose
- Signs/symptoms of acute HIV infection and recommended actions
- Appropriate counseling regarding on-going risk for HIV and other STI acquisition
- Consistent and correct use of condoms and prevention of STIs
- The necessity of follow up care with a primary care provider for usual care.
- The importance and requirement of testing for HIV, renal function, hepatitis B, hepatitis C and sexually transmitted diseases

#### Documentation:

- The pharmacist will notify the patient's primary care provider of a record of all medications prescribed. If a patient does not
  have a primary care provider, the pharmacist will provide the patient with a list of providers and clinics for which they may seek
  ongoing care.
- The pharmacist will also follow all documentation rules in Pharmacy Board Regulation 18VAC110-21-46.

#### Referrals to primary care provider:

- (note 1) If a patient tests positive for HIV infection or has signs or symptoms of acute HIV infection, the pharmacist will
  refer/direct the patient to a primary care provider and provide a list of providers and clinics in that region for confirmatory
  testing and follow up care.
- (note 2) If a patient tests positive for an STI, the pharmacist will refer/direct the patient to a primary care provider and provide a
  list of providers and clinics in that region for confirmatory testing and follow up care.
- (note 3) If a patient test has abnormal renal values and/or signs of acute renal injury, refer for urgent evaluation.
- (note 4) If a patient tests positive for Hepatitis B, the pharmacist will refer/direct the patient to a primary care provider and provide a list of providers and clinics in that region for confirmatory testing and follow up care.
- (note 5) If a patient tests positive for Hepatitis C, the pharmacist will refer/direct the patient to a primary care provider and
  provide a list of providers and clinics in that region for confirmatory testing and follow up care.

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(note 6) If a female patient becomes pregnant while on PrEP, refer for care.

# Provider Notification - DRAFT Pre-Exposure Prophylaxis (PrEP) for Human Immunodeficiency Virus (HIV)

Pharmacy Name:					
Pharmacy Address:					
Pharmacy Phone: Pharmacy Fax	Κ;				_
Dear Provider	(name) (	)		(FAX)	
Your patient	(name)	1	1	(DOB) h	nas been initiated
treatment for HIV Pre-Exposure Prophylaxis (PrEP) by	AM OTHER MICE AND			***************************************	This regimen
was filled on/ (Date) and follow-up I	HIV testing is	recomm	ended in a	approximate	ly 90 days
/ / (Date)				3	
This regimen consists of the following (check one):  Truvada (emtricitabine/tenofovir disoproxil fumarate)	□ Desco	vv (emtr	icitabine/i	tenofovir ala	fenamide)
200/300mg tablets		5mg tab	lets		
Take one tablet by mouth daily for 90 days		Take o	ne tablet	by mouth da	ily for 90 days
Your patient has been tested for and/or indicated the following	owing:				
Test Name Date of Test	Result				Needs referral
HIV ag/ab (4th gen):    //	□ reactive	□ indet	erminate	□ negative	□ Yes
Syphilis/Treponemal antibody:/	□ reactive	□ indet	erminate	□ negative	□ Yes
Hepatitis B surface antigen:	□ positive	nega nega	tive		□ Yes
Gonorrhea/Chlamydia://					□ Yes
Urinalysis result: Pharyngeal test result:		Rectal	test result	1	
□ reactive □ indeterminate □ reactive □ indeterminate	ate	□ reacti	ive a inde	eterminate	
□ negative □ negative		□ negat	ive		
Renal function (CrCl):		mL/min			□ Yes
□ CrCl >60mL/min □ CrCl 30mL/min - 60mL	/min	□ CrCl <	30mL/mir	7	
Signs/symptoms of STI not	□ present				□ Yes
otherwise specified:	A. C. C. C.				
Condomless sex in past two	□ yes				□ Yes
weeks	-,				
We recommend evaluating the patient, confirming the res	ults, and trea	ting as n	ecessary.	Listed below	are some key

We recommend evaluating the patient, confirming the results, and treating as necessary. Listed below are some key points to know about PrEP.

## Provider pearls for HIV PrEP:

- Truvada is not recommended for CrCl less than 60 mL/min. Please contact the pharmacy if this applies to your patient and/or there is a decline in renal function. Descovy may be a better option.
- Truvada and Descovy are both safe in pregnancy. If your patient is pregnant or becomes pregnant, they may continue PrEP.
- NSAIDs should be avoided while patients are taking HIV PrEP to avoid drug-drug interactions with Truvada.
- Truvada is a first line option for Hepatitis B treatment. This is not a contraindication to PrEP use, but we recommended
  you refer Hepatitis B positive patients to an infectious disease or gastroenterology specialist.
- A positive STI test is not a contraindication for PrEP.

## Pharmacy monitoring of HIV PrEP:

- The pharmacy initiating treatment and dispensing PrEP conducts and/or reviews results of HIV testing, STI testing, and baseline testing as part of their patient assessment.
- Patients who test reactive or indeterminate for HIV, gonorrhea/chlamydia, syphilis, or Hepatitis B will be referred to your office for evaluation, diagnosis, and treatment.
- Your office may take over management of this patient's HIV PrEP from the pharmacy at any time.

If you have additional questions, please contact the prescribing pharmacy, or call the HIV Warmline. The HIV Warmline offers consultations for providers from HIV specialists and is available every day at: (855) 448-7737. For information about PrEP, please visit the CDC website.

## VIRGINIA BOARD OF PHARMACY

## **Preventive Care**

## HIV Post-Exposure Prophylaxis (PEP) Statewide Protocol

Consistent with the manufacturer's instructions for use approved by the US Food and Drug Administration (FDA), a pharmacist may issue a prescription to initiate treatment with, dispense, or administer the following drugs and devices to persons 18 years of age or older:

 Controlled substances for the prevention of human immunodeficiency virus, including controlled substances prescribed for post-exposure prophylaxis pursuant to guidelines and recommendations of the Centers for Disease Control and Prevention.

## STANDARDIZED PATIENT ASSESSMENT PROCESS ELEMENTS:

- Utilize the standardized PEP Patient Intake Form (pg. 2)
- Utilize the standardized PEP Assessment and Treatment Care Pathway (pg. 3-5)
- Utilize the standardized PEP Patient Informational Handout (pg. 7)
- Utilize the standardized PEP Provider Fax (pg. 8)

## PHARMACIST EDUCATION AND TRAINING

 Prior to issuing a prescription to initiate treatment with, dispensing, or administering controlled substances for post-exposure prophylaxis under this protocol, the pharmacist shall be knowledgeable of the manufacturer's instructions for use and shall have completed a comprehensive training program related to the prescribing and dispensing of HIV prevention medications, to include related trauma-informed care.

## Post-Exposure Prophylaxis (PEP) Self-Screening Patient Intake Form - DRAFT

(CONFIDENTIAL-Protected Health Information)

ate		Date of		_/ Age
	Name	Preferr	ed Name	
ον Λ <i>c</i>	signed at Rirth (circle) M / F	Gende	r Identification (cir	cle) M / F / Other
refer	red Pronouns (circle) She/Her/Hers, He/Him/His, The	ey/Them/Their, Ze/	Hir/Hirs, Other	
	Address	Email Addross		
hone	( )	Phono ( )	Fax	( )
lealth		Insurance Provider	Name	· /
	u have health insurance? Yes / No			
	lergies to medications? Yes / No	ii yes, piease iist _		
	round Information:			
1.	Do you think you were exposed to Human Immunod	eficiency Virus (HIV	)?	□ Yes □ No □ Not sure
2.	What was the date of the exposure?			
3	What was the approximate time of the exposure?			: AM/PM
1	Was your exposure due to unwanted physical contact	ct or a sexual assaul	t?	□ Yes □ No □ Not sure
5.	Was the exposure through contact with any of the fo	ollowing body fluids	? Select any/all	□ Yes □ No □ Not sure
	that annly:			
	□ Blood □ Tissue fluids □ Semen □ Vaginal secretions	s 🗆 Saliva 🗆 Tears 🗆	Sweat   Other	
	(please specify):			Mark sumo
6.	Did you have vaginal or anal sexual intercourse with	out a condom?		□ Yes □ No □ Not sure
7.	Did you have oral sex without a condom with visible	blood in or on the	genitals or	☐ Yes ☐ No ☐ Not sure
	mouth of your partner?			N. N. N. L.
8.	Did you have oral sex without a condom with broken	n skin or mucous m	embrane of the	□ Yes □ No □ Not sure
	genitals or oral cavity of your partner?			N. N. N. Lesses
9.	Were you exposed to body fluids via injury to the sk	in, a needle, or ano	ther instrument	☐ Yes ☐ No ☐ Not sure
	or object that broke the skin?			N. N. N. I
10.	Did you come into contact with blood, semen, vagin	al secretions, or otl	ner body fluids of	☐ Yes ☐ No ☐ Not sure
	one of the following individuals?			
	persons with known HIV infection			
	men who have sex with men with unknown HIV st	atus		
	persons who inject drugs			
	□sex workers			Yes □ No □ Not sure
11.	Did you have another encounter that is not included	d above that could I	nave exposed	Yes   No   Not sure
	you to high risk body fluids? Please specify:			
Med	ical History:			
	Have you ever been diagnosed with Human Immun	odeficiency Virus (F	·IIV)?	□ Yes □ No □ Not sure
12.	Are you seeing a provider for management of Hepa	titis B?	· · · · · · · · · · · · · · · · · · ·	□ Yes □ No □ Not sure
13.	· I:	B? If yes, indicate w	vhen:	☐ Yes ☐ No ☐ Not sure
14.	If no, would you like a vaccine today? Yes/No	1 1		
1.5	1			□ Yes □ No □ Not sure
15.				□ Yes □ No □ Not sure
16.				□ Yes □ No □ Not sure
17.	Do you take any of the following over-the-counter	medications or herl	oal supplements?	☐ Yes ☐ No ☐ Not sure
18.	□ Orlictat (Alli®) □ asnirin > 325 mg □ naproxen (Alg	eve®) 🗆 ibuproten (/	$Advil^{\circ}$ ) $\square$ antacids	
	(Tums $^{\circ}$ or Rolaids $^{\circ}$ ), $\Box$ vitamins or multivitamins co	ontaining iron, calci	um, magnesium,	
	zinc or aluminum			
10	l' l	ny medications, inc	luding herbs or	☐ Yes ☐ No ☐ Not sure
19.	supplements? If yes, list them here:			
	Supplements: If yes, list them here.			
C:	atura			Date
sign	ature			

## Post-exposure Prophylaxis (PEP) of Human Immunodeficiency Virus (HIV)- DRAFT Assessment and Treatment Care Pathway

(CONFIDENTIAL-Protected Health Information)

ime:	43	Notes:
. Is the patient less than 18 years ol	U!	
Yes: Do not prescribe PEP. Refer latient to local primary care provider (PCP), emergency department (ED), urgent care, infectious disease specialist, or public health clinic	□ No: Go to #2	
	al assault?	Notes:
Yes: If the patient a survivor of sexual Yes: If the patient experienced a sexual assault, continue on with the algorithm (Go to #3) and then refer the patient to the emergency department for a sexual assault workup.**	□ No: Go to #3	
Is the nationt known to be HIV-no	sitive?	Notes: PEP is a time
3. Is the patient known to be HIV-po  ☐Yes: Do not prescribe PEP. Refer patient to local primary care provider, infectious disease specialist or public health clinic.	□ No: Go to #4. Conduct 4 <sup>th</sup> generation HIV fingerstick test if available (optional).	sensitive treatment with evidence supporting use <72 hours from time of exposure.
4. What time did the exposure occu	r?	Notes:
>72 hours ago: PEP not recommended. Do not prescribe PEP. Refer patient to local primary care provider, infectious disease specialist, or public health department.	□ ≤72 hours ago: go to #5	
5. Was the exposure from a source	person known to be HIV-positive?	
	□ No: Go to #7	
<ul> <li>Yes: Go to #6</li> <li>Was there exposure of the patier membrane, or non-intact skin, or fluids:</li> </ul>	nt's vagina, rectum, eye, mouth, other mucous percutaneous contact with the following body	Notes: The fluids listed on the far left column are considered high risk while
Please check any/all that apply:  Blood Semen Vaginal secretions Rectal secretions Breast milk Any body fluid that is visibly contaminated with blood	Please check any/all that apply (Note: only applicable if not visibly contaminated with blood):  Urine  Nasal Secretions  Saliva  Sweat  Tears  None of the above	the fluids on the right column are only considered high risk if contaminated with blood.
If any boxes are checked, go to #9.	Go to #7	Notes: This type of exposur
condom with a partner of knowl	nsertive anal/vaginal intercourse without a n or unknown HIV status?	puts the patient at a high risk for HIV acquisition
☐ Yes: Go to #9	☐ No: Go to #8	TISK TOT THE acquisition

# Post-exposure Prophylaxis (PEP) of Human Immunodeficiency Virus (HIV)- DRAFT Assessment and Treatment Care Pathway

(CONFIDENTIAL-Protected Health Information)

8. Did the patient have receptive/inset to vagina, anus, or penis (with or w known or unknown HIV status?	rtive intercourse without a dithout ejaculation) contact v	condom with mouth with a partner of	Notes: Consider calling the HIV Warmline (888) 448- 4911 for guidance.
☐ Yes: Please check all that apply and ☐ Was the source person known to be ☐ Were there cuts/openings/sores/uld ☐ Was blood present? ☐ Has this happened more than once we have above	HIV-positive? ers on the oral mucosa?	No: Use clinical judgement. Risk of acquiring HIV is low. Consider referral. If clinical determination is to prescribe PEP then continue to #9.	
9. Does the patient have an establish up? −OR- Can the pharmacist direct public health department for appropriate Tyes: Go to #10	tly refer to another local cor	P. Refer patient to	Notes: Connection to care is critical for future recommended follow-up.
10. Does the patient have history of kr	department (ED), urgent ca disease specialist, or public	re, infectious health dept.	Notes: Tenofovir disoproxil
☐ Yes: Do not prescribe PEP. Refer patient to local primary care provider (PCP), emergency department (ED), urgent care, infectious disease specialist, or public health dept.	□ No. Go to #11	atent of active).	fumarate treats HBV, therefore once stopped and/or completed, the patient could experience an acute Hepatitis B flare.
11. Has the patient received the full H Verify vaccine records or VIIS. Date		? □Yes □No	
☐ Yes: Go to #13	☐ No: Go to #12		
12. Review the risks of hepatitis B exavaccine if appropriate and go to #5  □ Vaccine administered  Lot: Exp: Si		patient. Offer	
13. Does the patient have known chro	onic kidney disease or reduce	ed renal function?	Notes: emtricitabine and
☐ Yes: Do not prescribe PEP. Refer patient to local primary care provider (PCP), emergency department (ED), urgent care, infectious disease specialist, or public health dept.	☐ No: PEP prescription re- below for recommended recounseling points. Patient referred to appropriate prescription of PEP for req follow-up testing, Pharmac the provider and patient.	commended. See egimen(s) and must be warm ovider following uired baseline and	tenofovir disoproxil fumarate requires renal dose adjustment when the CrCl <50 mL/min

# Post-exposure Prophylaxis (PEP) of Human Immunodeficiency Virus (HIV)- DRAFT Assessment and Treatment Care Pathway

(CONFIDENTIAL-Protected Health Information)

#### RECOMMENDED REGIMEN:

Medication	Age/Weight	Dose	Duration	Notes
emtricitabine 200mg/tenofovir disoproxil fumarate 300mg (Truvada or generic)	≥18 years	Once daily No refills	28 days	<ul> <li>Dosing adjustments with renal dysfunction if CrCl &lt;60 ml/min.</li> <li>Dolutegravir should not be used in pregnant women.</li> <li>If contraindications to raltegravir or dolutegravir exist, or for other reasons the preferred regimen cannot be given, then the "alternate regimens" per CDC guidelines should be referenced and used.</li> </ul>
raltegravir 400mg OR dolutegravir		Twice daily No refills		<ul> <li>Other FDA-approved regimens can be used if they become available. Formulation cautions and dose adjustments for antiretroviral medications shall minimally follow the CDC guidelines and package insert information for all regimens.</li> </ul>
50mg		daily No refills		<ul> <li>Although labeling is for 28 day supply, 30 days is recommended for prescribing due to the products being available only in 30-day packaging and high cost of the medications which could provide a barrier to availability and care. If able, 28-day regimens are appropriate if the pharmacist/pharmacy is willing to dispense as such.</li> </ul>
				<ul> <li>Pregnancy is not a contraindication to receive PEP treatment as Truvada® and Isentress® are preferred medications during pregnancy. If the patient is pregnant, please report their demographics to the Antiretroviral Pregnancy Registry: <a href="http://www.apregistry.com">http://www.apregistry.com</a></li> <li>If the patient is breastfeeding, the benefit of</li> </ul>
				prescribing PEP outweigh the risk of the infant acquiring HIV. Package inserts recommend against breastfeeding. "Pumping and dumping" may be considered. Consider consulting with an infectious disease provider, obstetrician, or pediatrician for further guidance.

#### COUNSELING POINTS (at minimum):

- Proper use of medication dosage, schedule, and potential common and serious side effects (and how to mitigate)
- The importance of medication adherence with relation to efficacy of PEP
- Signs/symptoms of acute HIV infection and recommended actions
- The patient should be instructed on correct and consistent use of HIV exposure precautions including condoms and not sharing injection equipment
- For women of reproductive potential with genital exposure to semen, emergency contraception should be discussed
- The necessity of follow up care with a primary care provider for usual care

## Post-exposure Prophylaxis (PEP) of Human Immunodeficiency Virus (HIV)- DRAFT Assessment and Treatment Care Pathway

(CONFIDENTIAL-Protected Health Information)

- The importance and requirement of follow up testing for HIV, renal function, hepatic function, hepatitis B and C, and sexually transmitted diseases
- If appropriate, general discussion of pre-exposure prophylaxis at future time.

#### PHARMACIST MANDATORY FOLLOW-UP:

- The pharmacist will contact the patient's primary care provider or other appropriate provider to provide written notification of PEP prescription and to facilitate establishing care for baseline testing such as SCr, 4<sup>th</sup> generation HIV Antigen/Antibody, AST/ALT, and Hepatitis B serology. (sample info sheet available)
- The pharmacist will provide a written individualized care plan to each patient. (sample info sheet available)
- The pharmacist will contact the patient approximately 1 month after initial prescription to advocate for appropriate provider follow-up after completion of regimen.

61 1 61	Data / /
Pharmacist Signature	Date/

#### Patient Information

## Post-Exposure Prophylaxis (PEP) for Human Immunodeficiency Virus (HIV) - DRAFT

Pharmacy Name:	
Pharmacy Address:	
Pharmacy Phone Number:	

## This page contains important information for you; please read it carefully.

You have been prescribed Post-Exposure Prophylaxis (PEP) to help prevent Human Immunodeficiency Virus (HIV). Listed below are the medications and directions you have been prescribed, some key points to remember about these medications, and a list of next steps that will need to be done in order to confirm the PEP worked for you.

#### Medications: You must start these within 72 hours of your exposure

- Truvada (emtricitabine/tenofovir disoproxil) 200 mg/300 mg take 1 tablet by mouth daily for 30 days, AND
- Isentress (raltegravir) 400 mg take 1 tablet by mouth twice daily for 30 days

#### **Key Points**

- You must start the medications within 72 hours of your exposure.
- Take every dose. If you miss a dose, take it as soon as you remember.
  - o If it is close to the time of your next dose, just take that dose. Do not double up on doses to make up for the missed dose.
- Do not stop taking either the medication without first asking your doctor or pharmacist.
- Truvada and Isentress don't have side effects most of the time. The most common side effects (if they do happen) are stomach upset. Taking Truvada and Isentress the medication with food can help with stomach upset. Over-the- counter nausea and diarrhea medications are okay to use with PEP if needed.
- Avoid over-the-counter pain medications like ibuprofen or naproxen while taking PEP.

### Follow-up and Next Steps

- 1. Contact your primary care provider to let them know you have been prescribed PEP because they will need to order lab tests and see you. The pharmacy cannot do these lab tests.
- 2. Our pharmacist will contact your doctor (or public health office if you do not have a primary doctor) to let them know what labs they need to order for you.
- 3. The tests we will be recommending to check at 6 weeks and at 3 months are listed below. The listed labs will involve a blood draw. Your provider may choose to do more tests as needed.

	이 두에는 [다마] 그렇지 그렇게 보면 생생님에게 되었다. 생생님에 가는 그는 사이 생생이 그릇 하기 없어 생생님에 있어야 그를 가면 그릇을 하게 보면 하게 하게 하셨다. 그렇게 하고 하다 그 아이스
	HIV antigen/antibody 4th generation
	Hepatitis B surface antigen and surface antibody
	Hepatitis C antibody
	Treponema pallidum antibody
	Comprehensive metabolic panel
2	 arra

4. If you think that you might still be at risk of HIV infection after you finish the 30-day PEP treatment, talk to your doctor about starting Pre-exposure prophylaxis (PrEP) after finishing PEP.

## Provider Notification Post-Exposure Prophylaxis (PEP) for Human Immunodeficiency Virus (HIV) - DRAFT

Pharmacy Name:	
Pharmacy Address:	
Pharmacy Phone:	Pharmacy Fax:
Dear Provider	(name), () (FAX)
Your patient	(name)/ (DOB) has been initiated treatment for
HIV Post-Exposure Prophylaxis (PEP) at	tPharmacy.
This regimen consists of:	
	soproxil) 200/300mg tablets - one tab by mouth daily for 30 days <u>AND</u> s - one tab by mouth twice daily for 30 days.
This regimen was initiated on	(Date).
	with you or another provider on your team within 1-2 weeks of starting pints to know about PEP and which labs are recommended to monitor.
Provider pearls for HIV PEP:	
	proxil fumarate needs renal dose adjustments for CrCl less than 50
mL/min. Please contact the pharma	
	oxil fumarate and Isentress-raltegravir are both safe in pregnancy. If your
	gnant, they may continue PEP for the full 30 days.
	tients are taking HIV PEP to avoid drug-drug interactions with Truvada
emtricitabine/tenofovir disoproxil fum	
	oroxil fumarate is a first line option for Hepatitis B treatment. This is not a
contraindication to PFP use, but we	recommended you refer Hepatitis B positive patients to an infectious
disease or gastroenterology special	
	sk factors for HIV exposure, consider starting Pre-exposure prophylaxis
(PrEP) after the completion of the 3	
We recommend ordering the foll	lowing labs at 6 weeks after the initiation date for HIV PEP:
☐ HIV antigen/antibody (4th gen) tes	
☐ Hepatitis B surface antigen and sur	
☐ Hepatitis C antibody	
☐ Comprehensive metabolic panel	
☐ Treponema pallidum antibody as a	appropriate
☐ Pregnancy test as appropriate	
☐ STI screening as appropriate (chlar	nydia, gonorrhea at affected sites)
We recommend ordering the following	lowing labs at 3 months after the initiation date for HIV PEP:
☐ HIV antigen/antibody (4th gen) tes	

☐ Hepatitis C antibody

# Provider Notification Post-Exposure Prophylaxis (PEP) for Human Immunodeficiency Virus (HIV) - DRAFT

Pharmacy Name:		
Pharmacy Address:		
Pharmacy Phone:	Pharmacy Fax:	

If you have further questions, please contact the pharmacy or call the HIV Warmline. The HIV Warmline offers consultations for providers from HIV specialists and is available every day at: (888) 448-4911. For more information about PEP, please visit the CDC website at <a href="mailto:cdc.gov/hiv/basics/pep.html">cdc.gov/hiv/basics/pep.html</a>.

### VIRGINIA BOARD OF PHARMACY

## TUBERCULIN SKIN TESTING ONE-STEP PROTOCOL

#### PURPOSE

This protocol specifies the criteria and procedures for pharmacists to initiate the dispensing, administration, and interpretation of the Tuberculin Skin Test (TST) to assist in tuberculosis prevention and control.

### PHARMACIST EDUCATION AND TRAINING

Prior to initiating the dispensing, administration, and interpretation of TST under this protocol, the pharmacist(s) must successfully complete the following training:

- The Centers for Disease Control and Prevention Guidelines for Targeted Tuberculin Testing<sup>1</sup> from a provider accredited by the Accreditation Council for Pharmacy Education
- The Centers for Disease Control and Prevention Core Curriculum on Tuberculosis

   Chapter 2: Testing for Tuberculosis Infection<sup>2</sup> or from a comparable provider approved by the Virginia Board of Pharmacy

Records documenting completion of required training shall be maintained by the pharmacist for a minimum of six years following the last patient encounter pursuant to this protocol or subsequent iterations for which the training is required. The training records may be stored in an electronic database or record as an electronic image that provides an exact, clearly legible image of the document or in secured storage either onsite or offsite. All records in off-site storage or database shall be retrieved and made available for inspection or audit within 48 hours of a request by the board or an authorized agent.

Prior to initiating the dispensing, administration, and interpretation of TST under this protocol, the pharmacist(s) must understand and follow procedures as specified by:

- The Centers for Disease Control and Prevention Guidelines for Targeted Tuberculin Testing
- Testing and Treatment of Latent Tuberculosis Infection in the United States: Clinical Recommendations<sup>3</sup>: Sections 1 and 2

https://www.cdc.gov/mmwr/preview/mmwrhtml/rr4906a1.htm.

<sup>&</sup>lt;sup>1</sup> Targeted Tuberculin Testing and Treatment of Latent Tuberculosis Infection ATS/CDC Statement Committee on Latent Tuberculosis Infection, June 2000. Available at

<sup>&</sup>lt;sup>2</sup> CDC Core Curriculum on Tuberculosis: What the Clinician Should Know. Available at <a href="https://www.cdc.gov/tb/education/corecurr/pdf/CoreCurriculumTB-508.pdf">https://www.cdc.gov/tb/education/corecurr/pdf/CoreCurriculumTB-508.pdf</a>

<sup>&</sup>lt;sup>3</sup> Testing and Treatment of Latent Tuberculosis Infection in the United States: Clinical Recommendations

- Tuberculosis Screening, Testing and Treatment of U.S. Healthcare Personnel: Recommendations from the National Tuberculosis Controllers Association and CDC, 20194
- High Burden TB Country List, Virginia Department of Health<sup>5</sup>

#### INCLUSION CRITERIA

Pharmacists acting under this protocol are authorized to initiate the dispensing, administration, and interpretation of TSTs to adults aged ≥ 18 years who:

- Are at increased risk for latent or active tuberculosis disease
- Need TST documented for school attendance, occupational requirements, insurance purposes, or other administrative purposes

#### **EXCLUSION CRITERIA**

Individuals meeting any of the following criteria:

- Allergy to any component of the TST or those patients with a previous allergic reaction to TST
- History of severe reaction (necrosis, blistering, anaphylactic shock, or ulcerations) to a previous TST
- Documented active TB or a clear history of treatment for TB infection or disease
- Extensive burns or eczema at the administration site
- Live vaccination administered within the last month<sup>6</sup> (simultaneous/same-day administration of live-vaccines and a TST is acceptable)
- History of a documented positive TST
- Any individual who is receiving an initial TST and will be receiving annual TB testing and thus is in need of two-step testing (refer to two step testing protocol)
- History of documented previous Bacilli Calmette-Guerin (BCG) vaccine

#### CONSIDERATIONS

 Individuals from high-burden TB countries may have received the BCG vaccination and not remember, this should be considered when administering the TST.

(NTCA/NTSC, 2021). Available at: https://survey.alchemer.com/s3/6183608/2021-LTBI-Testing-Treatment-Publication-Registration

<sup>&</sup>lt;sup>4</sup> Tuberculosis Screening, Testing and Treatment of U.S. Healthcare Personnel: Recommendations from the National Tuberculosis Controllers Association and CDC, 2019. Available at: https://www.cdc.gov/mmwr/volumes/68/wr/mm6819a3.htm?s cid=mm6819a3 w

<sup>&</sup>lt;sup>5</sup> High Burden TB Country List, Virginia Department of Health. Available at:

https://www.vdh.virginia.gov/tuberculosis/screening-testing/

<sup>&</sup>lt;sup>6</sup> Fact Sheets: Tuberculin Skin Testing. Centers for Disease Control and Prevention. Available at: https://www.cdc.gov/tb/publications/factsheets/testing/skintesting.htm

- Individuals with a suppressed immune system (HIV, other acute/chronic infections, those on certain medications, etc.) may not react to a TST in the way an immunocompetent person does. In this instance, a false negative result may be possible.
- Individuals who are contacts of a confirmed positive TB case may seek testing from a pharmacist. If a pharmacist becomes aware of this during the risk assessment, notification shall be made to the local health department. TST may still be performed.

#### MEDICATIONS

This protocol authorizes pharmacists to administer TST antigen, also known as purified protein derivative (PPD), read, and interpret the TST. The TST is one of two standard methods for determining whether a person is infected with *Mycobacterium tuberculosis*. This protocol authorizes the pharmacist to dispense and administer the following products with an approved indication for TST.

Product	Mfr_ / Dist.	NDCs*
Tubersol	Sanofi Pasteur	1mL (10 tests) = 49281-752-21
		5mL (50 tests) = 49281-752-22
Aplisol	Parkdale	1 mL (10 tests) = 42023-104-05
		5mL (50 tests) = 42023-104-05

<sup>\*</sup>or any other FDA-approved tuberculin skin test antigen

### PROCEDURES FOR INITIATION OF TB SCREENING

Decision to conduct a TST will be based on relevant medical and social history and consideration of contraindications and precautions as outlined in this protocol and in the American Thoracic Society (ATC)/CDC Guideline.<sup>1</sup> A risk assessment should be conducted by the pharmacist prior to initiation of the TST. The form in Appendix A can be used to complete the risk assessment. This assessment should not be self-administered by the client. The Report of Tuberculosis Screening in Appendix B must be completed at the conclusion of the screening. The Report (Appendix B) may be provided to the patient and may be subsequently provided to an employer, if necessary, and authorized by the patient. If active TB symptoms are present or indicated on the TB risk assessment documentation (see Appendix A), the patient must be immediately referred to a healthcare provider for further evaluation and further advised regarding isolation precautions.

The TST is performed by injecting 0.1mL of tuberculin PPD in the inner surface of the forearm. The injection should be made with a tuberculin syringe, with the needle bevel facing upward. The TST is an intradermal injection. When placed correctly, the injection should produce a pale elevation of the skin (a wheal) 6 to 10 mm in diameter (see Appendix C for detailed procedures for placing the TST).

#### PROCEDURES FOR MONITORING AND FOLLOW UP

The skin test reaction should be read between 48 and 72 hours after administration. Schedule an appointment for the reading at the time the TST is administered. An individual who does not return within 72 hours will need to be rescheduled for another skin test. The reaction should be measured in millimeters of the induration (palpable, raised, hardened area or swelling). The reader should not measure erythema (redness). The diameter of the indurated area should be measured across the forearm (perpendicular to the long axis) and recorded as millimeters of induration.

Interpretation and classification of TST results is determined by diameter of induration and consideration of risk factors as outlined in Testing and Treatment of Latent Tuberculosis Infection in the United States: Clinical Recommendations (NTCA/NTSC, 2021) <sup>3</sup> (Appendix D). If active TB symptoms are present or indicated on the TB risk assessment documentation (see Appendix A), patients must be immediately referred to a healthcare provider for further evaluation and further advised regarding isolation precautions.

#### **COUNSELING REQUIREMENTS**

Individuals receiving TST will receive counseling regarding:

- Need to return in 48-72 hours for interpretation of the TST
- If mild itchiness occurs, avoid scratching the site. Do not use creams or other treatments to treat the itchiness.
- Redness may develop. This is a normal reaction, avoid using creams or other treatments.
- Result of the TST
- Need for confirmatory evaluation and a chest X-ray following a positive TST result
- Between an initial positive TST and confirmatory evaluation, the patient may carry on normal activity unless showing signs and symptoms of active TB disease.
- If active TB symptoms are present or indicated on the TB risk assessment documentation (Appendix A), the patient must be immediately referred to a healthcare provider for further evaluation and further advised regarding isolation precautions.

#### **DOCUMENTATION**

Pharmacists will document via prescription or medical record each person who

#### receives a TST under this protocol including:

- 1. Documentation for the dispensing of prescription medication; and documentation that the individual receiving the TST was provided with the required counseling and referral information pursuant to this protocol.
- Documentation of the completion of the risk assessment, date and time of test
  placement, date and time of test reading, results and interpretation must be
  maintained by the pharmacist and provided to the patient and shall include
  both the millimeters of induration and interpretation of the test (negative or
  positive).
- 3. Individual test results, either positive or negative, may be provided to others upon the individual's request. This can include employers when testing is provided as a requirement of employment. The Report of TB Screening is included in Appendix B. The individual should sign a release of information indicating the individual's consent that this information can be shared (refer to the Patient Authorization section in Appendix A).
- 4. Certain laws or regulations may preclude a pharmacist from signing documentation for an individual to certify the individual has been examined and is free of tuberculosis. This should be ascertained prior to administration of the TST. The individual may have to be referred back to their primary care provider to obtain necessary certification.

#### **NOTIFICATION AND REFERRAL**

Prior to screening the patient for TB, the patient must complete and sign the Patient Authorization section of Appendix A authorizing the pharmacist to notify the primary health care provider or local health department of a positive TST result. If the patient refuses such authorization, the pharmacist shall not screen the patient for TB and shall refer the patient to a primary health care provider for evaluation. If the patient does not have a primary health care provider, the pharmacist shall counsel the patient regarding the benefits of establishing a relationship with a primary health care provider and, upon request, provide information regarding primary health care providers, including federally qualified health centers, free clinics, or local health departments serving the area in which the patient is located.

Pursuant to § 54.1-3303.1 of the Code of Virginia, a pharmacist who administers PPD for a TST shall notify the patient's primary health care provider that the pharmacist has administered a TST and inform the provider of the test results within three (3) business days, provided that the patient consents to such notification. If the patient does not have a primary health care provider, the pharmacist shall counsel the patient regarding the benefits of establishing a relationship with a primary health care provider and, upon request, provide information regarding primary health care providers, including federally qualified health centers, free clinics, or local health departments serving the area in which the patient is located.

# VIRGINIA BOARD OF PHARMACY TUBERCULOSIS RISK ASSESSMENT FORM - DRAFT (For Pharmacist Use When Screening Patient; Not intended to be a Self-Screening Document)

- of D		10	oday's Date:	Weight:	
Jate of B	irth: Age	: Healthcare	Provider's Name:		
Healthca	re Provider's Telephone, Fax, o	Email:			
Any Aller	gies to Medications? Yes / No	If yes, list here:			
other ma	andatory reason?			) for your job, school, or Yes $\square$	
If YES	, ensure pharmacists may lego	may not legally certij	y, refer patient to PCP	esults for intended purpose. If pharn	nacist
		If NO, proceed wi	th completing form.		
I hereby this test understa will be k	may be shared with other he and that: this information will l ept confidential; medical recor that have previously been trans I representative, or (ii) records	ealth care providers. I ack be used by health care proving ds must be kept at a minir ferred to another practition	nowledge that I have iders for care and not four form of six years follow ter or health care provices.	TST, if warranted. I agree that the re received the Notice of Privacy Practor statistical purposes only; this inforwing the last patient encounter excepter or provided to the patient or the peral law to be maintained for a longer	mation t for (i) atient's
	and the substitution of th	ad at			
l agree t	to return to the pharmacy local	he pharmacist on this date			
Lfurtho	r authorize the pharmacist to n	ntify the following of a posi		se one):	
	r authorize the pharmacist to n		tive TB Skin Test (choo		
□Prima	ary Care Physician: (First & Last Na	me)	tive TB Skin Test (choos		
□Prima	ary Care Physician: (First & Last Na		tive TB Skin Test (choos		
□ Prima	ary Care Physician: (First & Last Na	me) Federally-Qualified Healtho	tive TB Skin Test (choose to the context of the con	)	
□ Prima □ Loc  Patient	ary Care Physician:(First & Last Na al Free Clinic	me) Federally-Qualified Healtho	tive TB Skin Test (choose true to the content of th	)	
□ Prima □ Loc  Patient	ary Care Physician:(First & Last Na al Free Clinic	me) Federally-Qualified Healtho	tive TB Skin Test (choose true to the content of th	)	
□ Prima □ Loc  Patient  Patient	ery Care Physician:(First & Last Na al Free Clinic	me) Federally-Qualified Healtho	tive TB Skin Test (choose true to the content of th	efer patient to PCP.	
□ Prima □ Loc  Patient  Patient	ry Care Physician:(First & Last Na al Free Clinic	me) Federally-Qualified Healtho loes not agree to Patient A	tive TB Skin Test (choose true to the care Center    Date: Date: uthorization section, re	efer patient to PCP.	No□
□ Prima □ Loc Patient Patient	ery Care Physician:(First & Last Na al Free Clinic	me) Federally-Qualified Healtho  loes not agree to Patient A	tive TB Skin Test (choose true to the care Center    Date: Date: uthorization section, re	efer patient to PCP.  Yes  Yes  Yes	No I
□ Prima □ Loc  Patient  Patient  Screeni □ 1.	Ary Care Physician:  (First & Last Na last Free Clinic Local  Printed Name:  Signature:  If patient of last one of the Symptoms:  Do you have coughing that last one of the Symptom of the	me) Federally-Qualified Healtho  loes not agree to Patient A  has lasted for more than 3 vor mucous?	tive TB Skin Test (choose true to the care Center    Date: Date: uthorization section, re	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	Noo Noo
□ Prima □ Loc  Patient Patient  Screeni 1. 2. 3.	Ary Care Physician:  (First & Last Na al Free Clinic	me) Federally-Qualified Healtho  loes not agree to Patient A  has lasted for more than 3 was mucous?  perature reading:	tive TB Skin Test (choose true to the care Center    Date: Date: uthorization section, re	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	No   No
□ Prima □ Loc  Patient  Patient  Screeni □ 1. □ 2. □ 3. □ 4.	Are you coughing up blood of Do you have a fever? Temp.  (First & Last Na Local Local Local Printed Name:  If patient of the sumptoms:  Are you coughing up blood of Do you have a fever? Temp.  Have you experienced unint	me) Federally-Qualified Healtho  loes not agree to Patient A  nas lasted for more than 3 vor mucous? Perature reading: entional weight loss?	tive TB Skin Test (choose true to the care Center t	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	No Do
□ Prima □ Loc  Patient Patient  Screeni 1. 2. 3. 4. 5.	Ary Care Physician:  (First & Last Na all Free Clinic	me) Federally-Qualified Healthd  Foes not agree to Patient A  mas lasted for more than 3 voor mucous? Ferature reading:	tive TB Skin Test (choose true to the care Center    Date: Date: uthorization section, reserveeks?	Yes	No D No D No D No D
□ Prima □ Loc  Patient  Patient  Screeni □ 1. □ 2. □ 3. □ 4. □ 5. □ 6. □ 7.	ry Care Physician:  (First & Last Na al Free Clinic □ Local  Printed Name:  Signature:  If patient of the pati	me) Federally-Qualified Healthon  loes not agree to Patient A  mas lasted for more than 3 value reading: entional weight loss? te? (evaluate symptoms 5, 6, weats? (evaluate symptom) ate symptoms 5, 6, and 7 in	tive TB Skin Test (choose true TB Skin Test	Yes	No
□ Prima □ Loc  Patient  Patient  1. 2. 3. 4. 5. 6.	ry Care Physician:	me) Federally-Qualified Healthd  loes not agree to Patient A  mas lasted for more than 3 vor mucous? Perature reading: entional weight loss? te? (evaluate symptoms 5, 6, weats? (evaluate symptom ate symptoms 5, 6, and 7 in the guestions above	tive TB Skin Test (choose the care Center    Date: Date: Date: Lathorization section, reserveeks?  6, and 7 in context) Lathorization 5, 6, and 7 in context (context) (taking 5, 6, and 7 in context)	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	No
□ Prima □ Loc  Patient  Patient  1. 2. 3. 4. 5. 6.	ry Care Physician:	me) Federally-Qualified Healthon  loes not agree to Patient A  mas lasted for more than 3 value reading: entional weight loss? te? (evaluate symptoms 5, 6, weats? (evaluate symptom) ate symptoms 5, 6, and 7 in	tive TB Skin Test (choose the care Center    Date: Date: Date: Lathorization section, reserveeks?  6, and 7 in context) Lathorization 5, 6, and 7 in context (context) (taking 5, 6, and 7 in context)	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	No
□ Prima □ Loc  Patient  Patient  Screeni □ 1. □ 2. □ 3. □ 4. □ 5. □ 6. □ 7.  If pat	ry Care Physician:	me) Federally-Qualified Healthd  loes not agree to Patient A  mas lasted for more than 3 was remucous? Perature reading: entional weight loss? Ite? (evaluate symptoms 5, 6, and 7 in ane of the questions above red NO to all of the questions	tive TB Skin Test (choose translation for the care Center  Date: Date: Date: Lithorization section, reserveeks?  6, and 7 in context) Lis 5, 6, and 7 in context Lin context) (taking 5, 6, and 7 in cons above, proceed with	Yes	No

9.	Have you ever had a documented prior positive test for TB infection?	Yes 🗆	NOU
	If yes, date of positive test (if known): Type of Test:   TST/IGRA   TST		
	Poading: mm	Vec =	No
	If yes to prior positive test, did you have a chest radiograph performed after the positive test?	Yes □	No□
	CXR date (if known): Results: U Normal U Abnormal	V	Nos
	If chest radiograph was normal after positive test, did you receive LTBI treatment?	Yes □	No□
If VE	S to prior positive TB test, those seeking testing for administrative purposes must have documentation of	the past	prior
IJ TE.	positive TB test otherwise testing will still be required for work clearance.		
	If VES to prior positive TR test, and NO subsequent chest radiograph performed, refer patient to PC	Р.	_
	If VES to prior positive TB test and YES to subsequent NORMAL chest radiograph, no repeat TB testing is in	dicated	f
	asymptomatic; refer for LTBI treatment if previously untreated.		
	If NO prior positive TB test, proceed with completing this form.		
Screen	ing for TB Infection Risk	Vac =	No
10.	Have you had close contact to someone with known or suspected active TB disease at any time? Name	Yes □	No□
	of source case:		
	If YES, report to local health department. TST may still be performed.		
	If NO, proceed with completing this form.		
Screen	ing for High Burden TB Countries:	Yes □	No□
11.	Were you born in a country outside of the United States?	163 🗆	NO
	If yes, which country?	Yes □	No□
12.	Have you traveled or resided in a country outside of the United States for 3 months or longer?	163 🗆	1100
	If yes, which country?	Yes □	No□
13.	Have you traveled or resided in a country outside of the United States for the purpose of receiving	163 🗆	1100
	medical treatment?		
	If yes, which country?	2 mont	hs refer
Refer	to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list	od	is, rejer
	to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform	cu.	
	If NO or country did not appear on list, proceed with completing this form.		
Scree	ning for BCG	Yes 🗆	No□
14.	Were you ever administered the BCG vaccination?	103 🗅	1100
	If YES, refer.		
	If NO, proceed with completing form.		
Asses	sing Other Risks for Acquiring LTBI	Yes 🗆	No 🗆
15.	Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and	1000	,,,,
	long-term care facilities for elderly, mentally ill, or persons living with AIDS)?	Yes 🗆	No □
16.	Are you a healthcare worker who serves high-risk clients?	100	=
	NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact		
	investigation within the facility approved by the local health department.	Yes 🗆	No 🗆
17.		Yes 🗆	No 🗆
18.		Yes 🗆	No 🗆
19.	Do you have a regular health care provider?	Yes 🗆	No 🗆
	Have you received medical care within the last two years?	les 🗆	INO 🗆
	us as a state experience matient is considered medically underserved.	n oncoi	na conta
If YES	If NO to both questions, patient is considered including underserved, and screening is NOT part of a to any of the questions (#15-18) or if the patient is medically underserved, and screening is NOT part of a screening is not a screening is no	n ongon	ig conta
	investigation within a facility approved by the local health department, a 151 is indicated.		
	If NO to questions #15-18 and patient is not medically underserved, proceed with completing fo		
Asses	ssing Risk for Developing TB Disease if Infected	Voc =	No 🗆
20	. Have you been diagnosed with HIV infection?	Yes □	INO 🗆
20	. Have you been diagnosed with hiv infection:		

21.	Are you at risk for HIV infection?	Yes □	No
	If YES, recommend an HIV test. Administer TST even if patient refuses HIV test or consider referral for		
	IGRA testing.		
22.	Were you recently infected with Mycobacterium tuberculosis?	Yes □	No
23.	Do you have any of the following medical conditions:		
	<ul> <li>Low body weight due to chronic malabsorption syndromes?</li> </ul>	Yes □	No
	<ul> <li>Lung disease silicosis caused by breathing in tiny bits of silica?</li> </ul>	Yes □	No
	- Diabetes?	Yes □	No
	- End stage renal disease or on hemodialysis?	Yes □	No
	- Head or neck cancer?	Yes □	No
	- Leukemia?	Yes □	No
	- Lymphoma?	Yes □	No
	- Hematologic or reticuloendothelial disease?	Yes □	No
24.	Have you ever had any of the following procedures:		
	- Gastrectomy?	Yes □	No
	- Intestinal bypass?	Yes □	No
	<ul> <li>Solid organ transplant (e.g., kidney, liver, heart, lung, intestines, pancreas)?</li> </ul>	Yes □	No
25.	Do you receive treatment with TNF-alpha antagonists (e.g., infliximab, etanercept), steroids (equivalent of prednisone $\geq$ 15mg/day for $\geq$ 1 month) or other immunosuppressive medication?	Yes □	No
If YE	S to any of the questions in this section, TST test is indicated. If YES to HIV positive questions or on immu therapy, consider referal for IGRA testing.	inosuppr	essive

## Report of Tuberculosis Screening

Name:			Date of Birth:		Date:				
TO WH	OM IT MAY CONCERN: The abo	ove individual has be	en evaluated by (PRINT	OR TYPE):					
		ve marriada nas se		91110.51					
	of Pharmacy:		Tel.	#:					
	acy Address:								
TB Scre	ening and/or Testing Conclusion	ons							
1.	No Symptoms or Risks Iden	tified on TB Risk Ass	essment						
	☐ A tuberculin skin test (TS) Identified for infection or for employed in a low risk facilities. Health-Care Settings, 2005." ☐ The individual has a history suggestive of active TB.	or) is not indicated a or developing active lity according to CD do not need annua ory of TB infection.	t this time due to the ab TB if infected, and no lo C "Guidelines for Preve I testing. Follow-up chest x-ray is	known recent enting the Tra not indicated	ptoms suggestive of active TE contact with active TB. Heal nsmission of Mycobacterium at this time due to the absensection IV and select statem	th care workers tuberculosis in ce of symptoms			
	if one of these two statemen		statement applies, go t		section to una select statem	ent A.			
	If in a health care set				s are present, go to Section I	n:			
II.	Symptoms Consistent with			no symptom	s are present, go to section i				
	Call the local health depar when the individual prefer	tment to refer the p s to pursue an evalu	erson for further TB evi	of isolation p	ediately. This notification is precautions. Proceed to section TB, go to section III.				
111;	Testing for TB Infection via								
	#1 TST Lot:	Date Ad	ministered:	Time:	Site:				
	Pharmacist Name:								
	Date read:	Time:	Results:	mm	Interpretation: Negative $\square$	Positive 🗆			
	Pharmacist Name:								
	#2 TST Lot:	Date Ad	ministered:	Time:	Site:				
	Pharmacist Name:								
	Date read:	Time:	Results:	mm	Interpretation: Negative $\square$	Positive			
	Pharmacist Name:								
	11	test(s) above are n	egative, proceed to sect	tion IV and se	lect statement "A".				
		f test(s) above are p	ositive, proceed to sect	ion IV and se	lect statement "B".				
IV.	TB Screening/Testing Concl	usion							
		and the same of th	e individual listed above	e does not de	monstrate a risk of having tul	erculosis in a			
	☐ A. Based on the TB Screening and/or TST, the individual listed above does not demonstrate a risk of having tuberculosis in a communicable form.								
	☐ B. Active tuberculosis ca	annot be ruled out in	the individual listed ab	ove. The indi	vidual was counseled and ref	erred to (check			
	all that apply):								
	Primary Care Provide	er (Name):			(Tel.)(Tel.)				
	□ Local Health Depart	ment (Name):			(Tel.)				
			ry Health Care Providers		1 = 1				
	_ rovided contact in	TOTTING OF THE STATE OF	Treater care revises.						
	This individual should t	be treated by a PCP	for:						
	☐ Evaluation for Activ	e TB Disease Based	on Symptoms (pharmaci	ist must imme	diately call local health depa	rtment);			
	☐ Prior Positive Test v	vith No Subsequent	Normal Chest Radiograp	oh;					
	☐ Prior Positive Test v	vith Normal Chest Ra	adiograph, but LTBI Prev	iously Untrea	ted;				
	☐ IGRA since Individua								
	☐ IGRA since Individua								
			mised or on Immunosu	pressive The	rapy;				
	☐ Positive TST Result.								

Adopted by Virginia Board of Pharmacy:

**Effective Date:** 

December 30, 2005

Date Trainer (QC by)			Traine	e (TST placed by)	
	Scoring:	✓ or Y = Yes	X  or  N = No	NA = Not Applicable	
1. Preliminary				Holds needle bevel-up	and tip at 5°-15° angle to skin.
Uses appropriate hand hygiene	methods be	fore starting.	_	Inserts needle in first la	yer of skin with tip visible beneath skin
Screens patient for contraindical	tions (seven	e adverse	_	Advances needle until e	ntire bevel is under the first layer of skin.
reactions to previous TST).*			_	Releases stretched skin Injects entire dose slow	do
Uses well-lit area.			-	Forms wheal, as liquid	is injected
	r a de anacili	- units /TII)	_	Removes needle without	ut pressing area
2. Syringe† filled with exactly 0.1 mL of	5 tubercuii	n units (10)	_	Activates safety feature	of device per manufacturer's
purified protein derivative (PPD) anti-			-	recommendations, if ap	policable.
Removes antigen vial from refrig	geration and	commis mat it	13	Places used needle an	d syringe immediately in puncture-
5 TU PPD antigen.  Checks label and expiration dat	o on vial			resistant container with	out recapping needle.
Marks opening date on multidos	e vial			Immediately measures	wheal to ensure 6-10 mm in diameter
Fills immediately after vial remo	ved from ref	rigeration.		(Actual wheal measure	mentmm).
Cleans vial stopper with antisep	tic swab.				ent, blots site lightly with gauze or cotto
Twists needle onto syringe to er	sure tight fi	t.		ball.	or cotton ball according to local standar
Removes needle guard.	Variation (VA) 100		_	precautions.	Collor ball according to local biarras.
Inserts needle into the vial.				If the TST is administe	red incorrectly (too deeply or too
Draws slightly over 0.1 mL of 5	TU PPD into	o syringe.		shallow) and the whea	I is inadequate (<6 mm), a new TST
Removes excess volume or air	bubbles to e	exactly 0.1 mL of		should be placed imme	ediately. Applying the second TST on
5 TU PPD while needle remains	s in vial to a	void wasting of		the other arm or in a d	ifferent area of the same arm (at least
antigen.				2 inches from the first	site) is preferable so that the TST resul
Removes needle from vial.	anentae imm	adiatoh after fillir	ort	will be easier to read.	tion required by the setting (e.g., date
Returns antigen vial to the refri	gerator initi	ediately after min	-	and time of TST place	ment, person who placed TST, location
3. TST administration site selected and	cleaned			of injection site and lot	number of tuberculin).
Selects upper third of forearm v		≥2 inches from		Uses appropriate hand	hygiene methods after placing TST.
elbow, wrist, or other injection s	site.**		100		- di instructions for the
Selects site free from veins, les	ions, heavy	hair, bruises,	5. E1	oplanation to the client reg jection site	arding care instructions for the
scars, and muscle ridge.			111		and will sample about 10 minute
Cleans the site with antiseptic.	swab using	circular motion	-	The wheat (bump) is n	ormal and will remain about 10 minute
from center to outside.	dara admini	etaring antigen	_	Do not touch wheal; a Avoid pressure or ban	dage on injection site
Allows site to dry thoroughly be	nore aurimi	stering artigers	_	Para local discomfort	and irritation does not require treatmen
4. Needle inserted properly to adminis	ter antigen		_	May wash with soan a	and water (without pressure) after 1 hou
Rests arm on firm, well-lit surfa			-	No lotions or liquids or	site, except for light washing, as above
Stretches skin slightly.††	10.70		_	Keep appointment for	

† Use a ¼-½-inch 27-gauge needle or finer, disposable tuberculin (preferably a safety-type) syringe.

§ Prefilling syringes is not recommended. Tuberculin is absorbed in varying amounts by glass and plastics. To minimize reduction in potency, tuberculin should be administered as soon after the syringe has been filled as possible. Following these procedures will also help avoid contamination. Test doses should always be removed from the vial under strictly aseptic conditions, and the remaining solution should remain refrigerated (not frozen). Tuberculin should be stored in the dark as much as possible and exposure to strong light should be avoided. SOURCE: American Thoracic Society, CDC, Infectious Disease Society of America. Diagnostic standards and classification of tuberculosis in adults and children. Am J Respir Crit Care Med 2000;161:1376-95.

Preventing tuberculin antigen and vaccine (e.g., Td toxoid) misadministration is important. Measures should include physical separation of refrigerated products, careful visual inspection and reading of labels, preparation of PPD for patient use only at time of testing, and improved record keeping of lot numbers of antigens, vaccines, and other injectable products. SOURCE: CDC. Inadvertent intradermal administration of tetanus toxoid-containing vaccines instead of tuberculosis skin tests. MMWR 2004;53:662-4.

\*\* If neither arm is available or acceptable for testing, the back of the shoulder is a good alternate TST administration site.

SOURCE: National Tuberculosis Controllers Association, National Tuberculosis Nurse Consultant Coalition. Tuberculosis nursing: a comprehensive guide

to patient care. Smyrna, GA: National Tuberculosis Controllers Association; 1997.

11 Stretch skin by placing nondominant hand of health-care worker (HCW) on patient's forearm below the needle insertion point and then applying traction in the opposite direction of the needle insertion. Be careful not to place the nondominant hand of the HCW opposite the administration needle if the patient is likely to move during the procedure, which might cause an accidental needle-stick injury to the HCWs. In children and others who are likely to move during ing the procedure, certain trainers prefer stretching the skin in the opposite direction of the needle insertion by placing the nondominant hand of the HCW under the patient's forearm. This method should not be used for persons with poor skin turgor.

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Date	Trainer (QC by)				Trainee (TST placed by)		
		Scoring:	✓ or Y = Yes	X or N = No	NA = Not Applicable		
1. Preliminary					Marks dots transverse (perpendicular) to long axis of forea		
Keeps TST re Keeps ballpoir Uses w Inspec  2. Palpate — fine Lightly directic Uses z Repea	Preliminary  Uses appropriate hand hygiene methods before starting. Keeps fingernails shorter than fingertips to avoid misreading TST result. Keeps TST reading materials at hand (eyeliner pencil or ballpoint pen,* and ruler). Uses well-lit area. Inspects for the site of the injection.  Palpate — finding margin ridges (if any) Palpates with arm bent at elbow at a 90° angle. Lightly sweeps 2-inch diameter from injection site in four directions. Uses zigzag featherlike touch. Repeats palpation with arm bent at elbow at a 45° angle to determine presence or absence of induration.				4. Placing and reading ruler  Places the "0" ruler line inside the edge of the left dot. Reather ruler line inside right dot edge (uses lower measurement between two gradations on millimeter scale) (Figure 1).  Uses appropriate hand hygiene methods after reading TS result.  5. Documenting results  Records all TST results in millimeters, even those classifier as negative. Does not record only as "positive" or "negative. Records the absence of induration as "0 mm."  Correctly records results in mm; only a single measured induration in mm should be recorded.  Trainee's measurement mm.  Trainer's (gold standard) measurement mm.		
					Yes No		
Cleans center Uses f Marks indura	palm over injection site. se site with antiseptic swa to outside. ingertips to find margins of the induration by placing	of the indura small dots overnents to	ation. on both sides of	FDA N	E: In rare instances, the reaction might be severe (vesiculation, ation, or necrosis of the skin). Report severe adverse events to MedWatch Adverse Events Reporting System (AERS), telepho = DA-1088; fax: 800-FDA-0178; http://www.fda.gov/medwatch re 3500, Physicians' Desk Reference.		

Appendix F. (Continued) Quality control (QC) procedural observation checklists

<sup>†</sup> If induration is not present, record the TST result as 0 mm and go to the end of this form (Documenting results).

§ For example, if the TST trainer reads the TST result (the gold standard reading) as 11 mm, the trainee's TST reading should be between 9–13 mm to be considered correct.

The TST reading should be based on measurement of induration, not erythema, using a Mantoux skin test ruler. The diameter of induration should be measured transversely to the long axis of the forearm and recorded in millimeters. Record no induration as zero (0) millimeters.

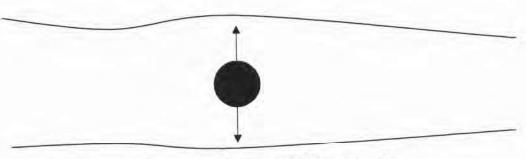
## Classification of the Tuberculin Skin Test Reaction<sup>1</sup>

≥5 mm Induration	≥10 mm Induration	≥15 mm Induration	
Considered positive in the following persons:  Persons living with the human immunodeficiency virus (HIV)  Recent contacts of a person with Tuberculosis (TB) disease  Persons with a chest radiography (CXR) findings suggestive of previous TB disease  Patients with organ transplants  Persons who are immunosuppressed for other reasons (e.g., prolonged therapy with corticosteroids equivalent of ≥15 mg per day of prednisone for for 1 month or longer or those taking tumor necrosis factoralpha [TNF-alpha] antagonists)	homeless shelters, or correctional facilities  • Persons with certain medical conditions that place them at high risk for TB, such as		

<sup>\*</sup>All tests should be interpreted based on patient risk and test characteristics.

A negative TST result does not exclude LTBI or active TB disease.

<sup>&</sup>lt;sup>1</sup> Testing and Treatment of Latent Tuberculosis Infection in the United States: Clinical Recommendations, Appendix 1: Interpretation of Test Results.(NTCA/NTSC, 2021). Available at: https://survey.alchemer.com/s3/q163708/2021-LTBI-Testing-Treatment-Publication-Registration



Measure TSTs Transversely

CDC LTBI: A Guide for Primary Health Care Providers

https://www.cdc.gov/tb/publications/ltbi/pdf/LTBIbooklet508.pdf

#### VIRGINIA BOARD OF PHARMACY

## TUBERCULIN SKIN TESTING TWO-STEP PROTOCOL: FOR INITIAL TESTING IN ADULTS WHO MAY BE UNDERGOING ANNUAL TESTING

#### PURPOSE

This protocol specifies the criteria and procedures for pharmacists to initiate the dispensing, administration, and interpretation of the Tuberculin Skin Test (TST) to assist in tuberculosis prevention and control. The two-step testing will help in reducing the likelihood that a boosted reaction to a subsequent TST will be misinterpreted as a recent infection.

#### PHARMACIST EDUCATION AND TRAINING

Prior to initiating the dispensing, administration, and interpretation of a TST under this protocol, the pharmacist(s) must successfully complete the following training:

- The Centers for Disease Control and Prevention Guidelines for Targeted Tuberculin Testing<sup>1</sup> from a provider accredited by the Accreditation Council for Pharmacy Education
- The Centers for Disease Control and Prevention Core Curriculum on Tuberculosis

   Chapter 2: Testing for Tuberculosis Infection<sup>2</sup> or from a comparable provider approved by the Virginia Board of Pharmacy

Records documenting completion of required training shall be maintained by the pharmacist for a minimum of six years following the last patient encounter pursuant to this protocol or subsequent iterations for which the training is required. The training records may be stored in an electronic database or record as an electronic image that provides an exact, clearly legible image of the document or in secured storage either onsite or offsite. All records in off-site storage or database shall be retrieved and made available for inspection or audit within 48 hours of a request by the board or an authorized agent.

Prior to initiating the dispensing, administration, and interpretation of a TST under this protocol, the pharmacist(s) must understand and follow procedures as specified by:

 The Centers for Disease Control and Prevention Guidelines for Targeted Tuberculin Testing

<sup>&</sup>lt;sup>1</sup> Targeted Tuberculin Testing and Treatment of Latent Tuberculosis Infection ATS/CDC Statement Committee on Latent Tuberculosis Infection, June 2000. Available at

https://www.cdc.gov/mmwr/preview/mmwrhtml/rr4906a1.htm.

<sup>&</sup>lt;sup>2</sup> CDC Core Curriculum on Tuberculosis: What the Clinician Should Know. Available at https://www.cdc.gov/tb/education/corecurr/pdf/CoreCurriculumTB-508.pdf

- Testing and Treatment of Latent Tuberculosis Infection in the United States: Clinical Recommendations<sup>3</sup>: Sections 1 and 2
- Tuberculosis Screening, Testing and Treatment of U.S. Healthcare Personnel: Recommendations from the National Tuberculosis Controllers Association and CDC, 2019<sup>4</sup>
- High Burden TB Country List, Virginia Department of Health<sup>5</sup>

#### INCLUSION CRITERIA

Pharmacists acting under this protocol are authorized to initiate the dispensing, administration, and interpretation of TSTs to adults aged  $\geq$  18 years who are receiving initial TB skin testing and may continue to receive an annual TST for employment purposes. The 2020 CDC Guidelines for Screening, Testing and Treatment of Healthcare Personnel no longer include a recommendation for serial screening for the majority of healthcare personnel after the initial screening, unless they fall into a particular high risk group (e.g., pulmonologists) or there is an exposure or on-going transmission at the healthcare facility<sup>6</sup>.

#### **EXCLUSTION CRITERIA**

Individuals meeting any of the following criteria:

- Allergy to any component of the TST or those patients with a previous allergic reaction to a TST
- History of severe reaction (necrosis, blistering, anaphylactic shock, or ulcerations) to a previous TST
- Documented active TB or a clear history of treatment for TB infection or disease
- Extensive burns or eczema at the administration site
- Live vaccination administered within the last month<sup>7</sup> (simultaneous/same-day administration of live-vaccines and a TST is acceptable)
- History of a positive TST

<sup>&</sup>lt;sup>3</sup>Testing and Treatment of Latent Tuberculosis Infection in the United States: Clinical Recommendations (NTCA/NTSC, 2021). Available at: <a href="https://survey.alchemer.com/s3/6183608/2021-LTBI-Testing-Treatment-Publication-Registration">https://survey.alchemer.com/s3/6183608/2021-LTBI-Testing-Treatment-Publication-Registration</a>

<sup>&</sup>lt;sup>4</sup> Tuberculosis Screening, Testing and Treatment of U.S. Healthcare Personnel: Recommendations from the National Tuberculosis Controllers Association and CDC, 2019. Available at: https://www.cdc.gov/mmwr/volumes/68/wr/mm6819a3.htm?s\_cid=mm6819a3\_w

<sup>&</sup>lt;sup>5</sup> High Burden TB Country List, Virginia Department of Health. Available at: https://www.vdh.virginia.gov/tuberculosis/screening-testing/

<sup>&</sup>lt;sup>6</sup> Tuberculosis Screening, Testing, and Treatment of U.S. Health Care Personnel: Recommendations from the National Tuberculosis Controllers Association and CDC, Available at: https://www.cdc.gov/mmwr/volumes/68/wr/mm6819a3.htm?s\_cid=mm6819a3\_w

<sup>&</sup>lt;sup>7</sup> Fact Sheets: Tuberculin Skin Testing. Centers for Disease Control and Prevention. Available at: https://www.cdc.gov/tb/publications/factsheets/testing/skintesting.htm

History of documented previous Bacilli Calmette-Guerin (BCG) vaccine

#### CONSIDERATIONS

- Individuals from high-burden TB countries may have received the BCG vaccine and not remember, this should be considered when administering the TST.
- Individuals with a suppressed immune system (HIV, other acute/chronic infections, those on certain medications, etc.) may not react to a TST in the way an immunocompetent person does. In this instance, a false negative result may be possible.
- Individuals who are contacts of a confirmed positive TB case may seek testing from a pharmacist. If a pharmacist becomes aware of this during the risk assessment, notification shall be made to the local health department. TST may still be performed.

#### MEDICATIONS

This protocol authorizes pharmacists to administer tuberculin skin test antigen, also known as purified protein derivative (PPD), read, and interpret the TST. TST is one of two standard methods for determining whether a person is infected with *Mycobacterium tuberculosis*. This protocol authorizes the pharmacist to dispense and administer the following products with an approved indication for TST.

Product	Mfr. / Dist.	NDCs*
Tubersol	Sanofi Pasteur	1mL (10 tests) = 49281-752-21 5mL (50 tests) = 49281-752-22
Aplisol	Parkdale	1 mL (10 tests) = 42023-104-05 5mL (50 tests) = 42023-104-05

<sup>\*</sup>or any other FDA-approved tuberculin skin test antigen

#### PROCEDURES FOR INITIATION OF TB SCREENING

Decision to conduct a TST will be based on relevant medical and social history and consideration of contraindications and precautions as outlined in this protocol and in the American Thoracic Society (ATS)/CDC Guideline. In addition, the need for periodic retesting and the presence of individual risk factors for occupational exposures will be used to determine the need for two-step testing. A risk assessment should be conducted by the pharmacist prior to initiation of the TST. The form in Appendix A can be used to complete the risk assessment. This assessment should not be self-administered by the client. The Report of Tuberculosis Screening in Appendix B must

be completed at the conclusion of the screening. The Report (Appendix B) may be provided to the patient and may be subsequently provided to an employer, if necessary, and authorized by the patient. If active TB symptoms are present or indicated on the TB risk assessment documentation (see Appendix A), the patient must be immediately referred to a healthcare provider for further evaluation and further advised regarding isolation precautions

The TST is performed by injecting 0.1mL of tuberculin PPD in the inner surface of the forearm. The injection should be made with a tuberculin syringe, with the needle bevel facing upward. The TST is an intradermal injection. When placed correctly, the injection should produce a pale elevation of the skin (a wheal) 6 to 10 mm in diameter (see Appendix C for detailed procedures for placing the TST).

## PROCEDURES FOR MONITORING AND FOLLOW UP

The skin test reaction should be read between 48 and 72 hours after administration. Schedule an appointment for the reading at the time the TST is administered. An individual who does not return within 72 hours will need to be rescheduled for another skin test. The reaction should be measured in millimeters of the induration (palpable, raised, hardened area or swelling). The reader should not measure erythema (redness). The diameter of the indurated area should be measured across the forearm (perpendicular to the long axis) and recorded as millimeters of induration.

Interpretation and classification of TST results is determined by diameter of induration and consideration of risk factors as outlined in ATS/CDC Guideline<sup>1</sup> (Appendix D ). If active TB symptoms are present or indicated on the TB risk assessment documentation (see Appendix A), patients must be immediately referred to a healthcare provider for further evaluation and further advised regarding isolation precautions.

An initial positive reaction is considered a TB infection and a second TST is not required. The patient will need to receive a chest x-ray and additional evaluation to rule out active TB disease. An initial negative reaction requires a retest 1-3 weeks after the initial TST. Upon retesting, a negative reaction suggests the patient does not have a TB infection, in which case a TST can be repeated annually, if required. However, a positive reaction after retesting is considered a boosted reaction due to a TB infection that occurred a long time ago. In this case, the patient will need to receive a chest x-ray and additional evaluation to rule out active TB disease. A referral is required for this follow-up and so that treatment considerations can be made if latent TB infection is diagnosed (see Appendix E)<sup>2</sup>.

### COUNSELING REQUIREMENTS

Individuals receiving TST will receive counseling regarding:

- Need to return in 48-72 hours for interpretation of the TST
- If mild itchiness occurs, avoid scratching the site. Do not use creams or other treatments to treat the itchiness.
- Redness may develop. This is a normal reaction, avoid using creams or other treatments.
- · Result of the TST
- Need for a second TST in 1-3 weeks if the initial result is negative
- Need for confirmatory evaluation and a chest X-ray following a positive TST result
- Between an initial positive TST and confirmatory evaluation, the patient may carry on normal activity unless showing signs and symptoms of active TB disease.
- If active TB symptoms are present or indicated on the TB risk assessment documentation (Appendix A), the patient must be immediately referred to a healthcare provider for further evaluation and further advised regarding isolation precautions.

#### DOCUMENTATION

Pharmacists will document via prescription or medical record each person who receives a TST under this protocol including:

- Documentation for the dispensing of prescription medication; and documentation that the individual receiving the TST was provided with the required education and referral information pursuant to this protocol.
- Documentation of the completion of the risk assessment, date and time of test placement, date and time of test reading, results and interpretation must be maintained by the pharmacist and provided to the patient and shall include both the millimeters of induration and interpretation of the test (negative or positive).
- 3. Individual test results, either positive or negative, may be provided to others upon the individual's request. This can include employers when testing is provided as a requirement of employment. The Report of TB Screening is included in Appendix B. The individual should sign a release of information indicating their consent that this information can be shared (refer to the Patient Authorization section in Appendix A).
- 4. Certain laws or regulations may preclude a pharmacist from signing documentation for an individual to certify the individual has been examined and is free of tuberculosis. This should be ascertained prior to administration of the TST. The individual may have to be referred back to their primary care provider to obtain necessary certification.

#### NOTIFICATION AND REFERRAL

Prior to screening the patient for TB, the patient must complete and sign the Patient

Authorization section of Appendix A authorizing the pharmacist to notify the primary health care provider or local health department of a positive TST result. If the patient refuses such authorization, the pharmacist shall not screen the patient for TB and shall refer the patient to a primary health care provider for evaluation. If the patient does not have a primary health care provider, the pharmacist shall counsel the patient regarding the benefits of establishing a relationship with a primary health care provider and, upon request, provide information regarding primary health care providers, including federally qualified health centers, free clinics, or local health departments serving the area in which the patient is located.

Pursuant to § 54.1-3303.1 of the Code of Virginia, a pharmacist who administers PPD for a TST shall notify the patient's primary health care provider that the pharmacist has administered a TST and inform the provider of the test results within three (3) business days, provided that the patient consents to such notification. If the patient does not have a primary health care provider, the pharmacist shall counsel the patient regarding the benefits of establishing a relationship with a primary health care provider and, upon request, provide information regarding primary health care providers, including federally qualified health centers, free clinics, or local health departments serving the area in which the patient is located.

## VIRGINIA BOARD OF PHARMACY TUBERCULOSIS RISK ASSESSMENT FORM - DRAFT (For Pharmacist Use When Screening Patient; Not intended to be a Self-Screening Document)

Date of Birth:	Name:		Today's Date:	Weight:			
Are you required to have a Tuberculosis (TB) Risk Assessment or Tuberculin Skin Test (TST) for your job, school, or other mandatory reason?  If yes, specify reason?  If NO, proceed with completing form.  Patient Authorization:  I hereby authorize the pharmacist to perform the TB Risk Assessment and administer the TST, if warranted. I agree that the result this test may be shared with other health care providers. I acknowledge that I have received the Notice of Privacy Practic understand that: this information will be used by health care providers for care and not for statistical purposes only; this inform will be kept confidential; medical records must be kept at a minimum of six years following the last patient encounter except records that have previously been transferred to another practitioner or health care provider or provided to the patient or the pat personal representative, or (ii) records that are required by contractual obligation or federal law to be maintained for a longer p of time.  I agree to return to the pharmacist to notify the following of a positive TB Skin Test (choose one):    primary Care Physician:   (First & Last Name)							
Are you required to have a Tuberculosis (TB) Risk Assessment or Tuberculin Skin Test (TST) for your job, school, or other mandatory reason?  If yes, specify reason?  If NO, proceed with completing form.  Patient Authorization:  I hereby authorize the pharmacist to perform the TB Risk Assessment and administer the TST, if warranted. I agree that the result is the start may be shared with other health care providers. I acknowledge that I have received the Notice of Privacy Practic understand that: this information will be used by health care providers for care and not for statistical purpose, only; this inform will be kept confidential; medical records must be kept at a minimum of six years following the last patient encounter except intercords that have previously been transferred to another practitioner or health care provider or provided to the patient or the pat personal representative, or (ii) records that are required by contractual obligation or federal law to be maintained for a longer pof time.  I agree to return to the pharmacy located at to have the results of the test read by the pharmacist on this date to have the results of the test read by the pharmacist on this date (First & Last Name) (Tel. #)    Local Free Clinic   Local Federally-Qualified Healthcare Center	Healthca	re Provider's Telephone, Fax, or Em	ail:				
ther mandatory reason?  If yes, specify reason?  If yes, specify reason?  If YES, ensure pharmacists may legally sign document certifying assessment or TST results for intended purpose. If pharmaman not legally certify, refer patient to PCP.  If NO, proceed with completing form.  Patient Authorization:  Thereby authorize the pharmacist to perform the TB Risk Assessment and administer the TST, if warranted. I agree that the result his test may be shared with other health care providers. I acknowledge that I have received the Notice of Privacy Practic understand that: this information will be used by health care providers for care and not for statistical purposes only; this inform will be kept confidential; medical records must be kept at a minimum of six years following the last patient encounter except records that have previously been transferred to another practitioner or health care provider or provided to the patient or the pat personal representative, or (ii) records that are required by contractual obligation or federal law to be maintained for a longer pof time.  I agree to return to the pharmacy located at to have the results of the test read by the pharmacist on this date  I further authorize the pharmacist to notify the following of a positive TB Skin Test (choose one):    Primary Care Physician:	Any Aller	gies to Medications? Yes / No If yo	es, list here:				
If YES, ensure pharmacists may legally sign document certifying assessment or TST results for intended purpose. If pharmacing may not legally certify, refer patient to PCP.  If NO, proceed with completing form.  Patient Authorization:  Thereby authorize the pharmacist to perform the TB Risk Assessment and administer the TST, if warranted. Tagree that the result this test may be shared with other health care providers. Tacknowledge that I have received the Notice of Privacy Practic understand that: this information will be used by health care providers for care and not for statistical purposes only; this information will be test patient or providers for care and not for statistical purposes only; this information will be kept at a minimum of six years following the last patient encounter except records that have previously been transferred to another practitioner or health care provider or provided to the patient or the pat personal representative, or (ii) records that are required by contractual obligation or federal law to be maintained for a longer por time.  I agree to return to the pharmacy located at to have the results of the test read by the pharmacist on this date.  I further authorize the pharmacist to notify the following of a positive TB Skin Test (choose one):    Primary Care Physician:	other ma	andatory reason?	Risk Assessment or Tuberculin Skin Test (TST) for	your job, school, or Yes	□ No□		
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I agree to return to the pharmacy located at to have the results of the test read by the pharmacist on this date		representative, or (ii) records that	are required by contractual obligation or federal I	aw to be maintained for a lo	nger period		
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Screening for TB Symptoms:  1. Do you have coughing that has lasted for more than 3 weeks?  2. Are you coughing up blood or mucous?  3. Do you have a fever? Temperature reading:  4. Have you experienced unintentional weight loss?  5. Do you have a loss of appetite? (evaluate symptoms 5, 6, and 7 in context)  6. Are you experiencing night sweats? (evaluate symptoms 5, 6, and 7 in context)  7. Do you have fatigue? (evaluate symptoms 5, 6, and 7 in context)  If patient answered YES to at least one of the questions above (taking 5, 6, and 7 in context), stop here and refer patient to be a least one of the questions above, proceed with completing this form.  Screening for TB History:					_		
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<ul> <li>4. Have you experienced unintentional weight loss?</li> <li>5. Do you have a loss of appetite? (evaluate symptoms 5, 6, and 7 in context)</li> <li>6. Are you experiencing night sweats? (evaluate symptoms 5, 6, and 7 in context)</li> <li>7. Do you have fatigue? (evaluate symptoms 5, 6, and 7 in context)</li> <li>Yes □ N</li> <li>If patient answered YES to at least one of the questions above (taking 5, 6, and 7 in context), stop here and refer patient to It patient answered NO to all of the questions above, proceed with completing this form.</li> <li>Screening for TB History:</li> </ul>				71 - 37 - 478-304			
<ul> <li>5. Do you have a loss of appetite? (evaluate symptoms 5, 6, and 7 in context)</li> <li>6. Are you experiencing night sweats? (evaluate symptoms 5, 6, and 7 in context)</li> <li>7. Do you have fatigue? (evaluate symptoms 5, 6, and 7 in context)</li> <li>Yes Do you have fatigue? (evaluate symptoms 5, 6, and 7 in context)</li> <li>If patient answered YES to at least one of the questions above (taking 5, 6, and 7 in context), stop here and refer patient to be a lift patient answered NO to all of the questions above, proceed with completing this form.</li> <li>Screening for TB History:</li> </ul>		<u> </u>			1000		
6. Are you experiencing night sweats? (evaluate symptoms 5, 6, and 7 in context)  7. Do you have fatigue? (evaluate symptoms 5, 6, and 7 in context)  Yes □ N  If patient answered YES to at least one of the questions above (taking 5, 6, and 7 in context), stop here and refer patient to II  If patient answered NO to all of the questions above, proceed with completing this form.  Screening for TB History:							
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Screening for TB History:	If patie	The state of the s			nt to PCP.		
		If patient answered N	O to all of the questions above, proceed with con	npleting this form.			
	Screenii	ng for TB History:					
			B Disease/Latent Tuberculosis Infection (LTBI)?	Yes	□ No□		

Adopted by Virginia Board of Pharmacy:

**Effective Date:** 

	Have you ever had a documented prior positive test for TB infection?		
	If yes, date of positive test (if known): Type of Test: ☐ TST/IGRA ☐ TST		
	Reading:mm		
	If yes to prior positive test, did you have a chest radiograph performed after the positive test?	Yes 🗆	No□
	CXR date (if known): Results:   Normal  Abnormal		
	If chest radiograph was normal after positive test, did you receive LTBI treatment?	Yes 🗆	No□
If YE	S to prior positive TB test, those seeking testing for administrative purposes must have documentation of	f the past	prior
	positive TB test otherwise testing will still be required for work clearance.		
	If YES to prior positive TB test, and NO subsequent chest radiograph performed, refer patient to P		
	If YES to prior positive TB test and YES to subsequent NORMAL chest radiograph, no repeat TB testing is i	indicated	if
	asymptomatic; refer for LTBI treatment if previously untreated.		
	If NO prior positive TB test, proceed with completing this form.		
Screen	ing for TB Infection Risk		
10.	Have you had close contact to someone with known or suspected active TB disease at any time? Name	Yes 🗆	No□
	of source case:		
	If YES, report to local health department. TST may still be performed.		
	If NO, proceed with completing this form.		
-			
	ing for High Burden TB Countries:	Vac =	Non
11.	Were you born in a country outside of the United States?	Yes 🗆	No□
12	If yes, which country?  Have you traveled or resided in a country outside of the United States for 3 months or longer?	Yes 🗆	No□
12.	If yes, which country?	163	NOL
		-	
13	Have you traveled or resided in a country outside of the United States for the purpose of receiving	Yes □	No□
13.	Have you traveled or resided in a country outside of the United States for the purpose of receiving medical treatment?	Yes 🗆	No□
	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list?	≥ 3 mont	
Refer	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform  If NO or country did not appear on list, proceed with completing this form.	≥ 3 mont	
Refer Screen	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform  If NO or country did not appear on list, proceed with completing this form.  ing for BCG	> 3 monti ned.	hs, refe
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Refer Screen	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform  If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.	> 3 monti ned.	hs, refe
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Screen 14. Assess 15.	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform  If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?	> 3 month	No 🗆
Screen 14. Assess 15.	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?	> 3 month	No 🗆
Screen 14. Assess 15.	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?  NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact	> 3 month	No 🗆
Screen 14.  Assess 15.	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?  NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact investigation within the facility approved by the local health department.	≥ 3 monthed.  Yes □  Yes □	No   No   No
**Refer 14. **  **Assess** 15.	medical treatment? If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?  NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact investigation within the facility approved by the local health department.  Have you experienced homelessness within the past two years?  Do you inject drugs for recreational use or use crack cocaine?  Do you have a regular health care provider?	Yes  Yes  Yes  Yes  Yes	No   No   No   No   No   No   No   No
**Refer 14. **  **Assess 15. **  16. **  17. **  18. **	medical treatment? If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?  NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact investigation within the facility approved by the local health department.  Have you experienced homelessness within the past two years?  Do you inject drugs for recreational use or use crack cocaine?  Do you have a regular health care provider?  Have you received medical care within the last two years?	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	No   No   No   No   No   No   No   No
**Refer 14. **  **Assess** 15.   16.   17.   18.   19.   **	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?  NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact investigation within the facility approved by the local health department.  Have you experienced homelessness within the past two years?  Do you inject drugs for recreational use or use crack cocaine?  Do you have a regular health care provider?  Have you received medical care within the last two years?  If NO to both questions, patient is considered medically underserved.	Yes   Yes   Yes   Yes   Yes   Yes	No   No   No   No   No   No
**Refer 14. **  **Assess** 15.   16.   17.   18.   19.   **	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform  If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?  NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact investigation within the facility approved by the local health department.  Have you experienced homelessness within the past two years?  Do you inject drugs for recreational use or use crack cocaine?  Do you have a regular health care provider?  Have you received medical care within the last two years?  If NO to both questions, patient is considered medically underserved, and screening is NOT part of an only of the questions (#15-18) or if the patient is medically underserved, and screening is NOT part of an only of the questions (#15-18) or if the patient is medically underserved, and screening is NOT part of an only of the questions (#15-18) or if the patient is medically underserved, and screening is NOT part of an only of the questions (#15-18) or if the patient is medically underserved.	Yes   Yes   Yes   Yes   Yes   Yes	No   No   No   No   No   No   No   No
**Refer 14. **  **Assess** 15.   16.   17.   18.   19.   **	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?  NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact investigation within the facility approved by the local health department.  Have you experienced homelessness within the past two years?  Do you inject drugs for recreational use or use crack cocaine?  Do you have a regular health care provider?  Have you received medical care within the last two years?  If NO to both questions, patient is considered medically underserved, and screening is NOT part of an investigation within a facility approved by the local health department, a TST is indicated.	Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes	No   No   No   No   No   No   No   No
**Refer 14. **  **Assess** 15.   16.   17.   18.   19.   **	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform  If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?  NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact investigation within the facility approved by the local health department.  Have you experienced homelessness within the past two years?  Do you inject drugs for recreational use or use crack cocaine?  Do you have a regular health care provider?  Have you received medical care within the last two years?  If NO to both questions, patient is considered medically underserved, and screening is NOT part of an only of the questions (#15-18) or if the patient is medically underserved, and screening is NOT part of an only of the questions (#15-18) or if the patient is medically underserved, and screening is NOT part of an only of the questions (#15-18) or if the patient is medically underserved, and screening is NOT part of an only of the questions (#15-18) or if the patient is medically underserved.	Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes	No   No   No   No   No   No   No   No
**Refer 14. **  **Assess** 15.    16.    17.    18.    19.     **If YES :	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list; to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?  NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact investigation within the facility approved by the local health department.  Have you experienced homelessness within the past two years?  Do you have a regular health care provider?  Have you received medical care within the last two years?  If NO to both questions, patient is considered medically underserved, and screening is NOT part of an investigation within a facility approved by the local health department, a TST is indicated.  If NO to questions #15-18 and patient is not medically underserved, proceed with completing for	Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes	No   No   No   No   No   No   No   No
**Refer 14. **  **Assess** 15.    16.    17.    18.    19.     **If YES :	medical treatment?  If yes, which country?  to current VDH High Burden TB Countries list. If YES and born in or traveled to/resided in country on list to BCG vaccination status. If BCG vaccinated, refer for IGRA. For others, TST may still be perform If NO or country did not appear on list, proceed with completing this form.  ing for BCG  Were you ever administered the BCG vaccination?  If YES, refer.  If NO, proceed with completing form.  ing Other Risks for Acquiring LTBI  Do you reside or work in a high TB risk congregate setting (e.g., correctional facility, nursing home, and long-term care facilities for elderly, mentally ill, or persons living with AIDS)?  Are you a healthcare worker who serves high-risk clients?  NOTE: Stop and refer patient to local health department if screening is part of an ongoing contact investigation within the facility approved by the local health department.  Have you experienced homelessness within the past two years?  Do you inject drugs for recreational use or use crack cocaine?  Do you have a regular health care provider?  Have you received medical care within the last two years?  If NO to both questions, patient is considered medically underserved, and screening is NOT part of an investigation within a facility approved by the local health department, a TST is indicated.	Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes	No   No   No   No   No   No   No   No

21.	Are you at risk for HIV infection?	Yes □	No □
	If YES, recommend an HIV test. Administer TST even if patient refuses HIV test or consider referral for		
	IGRA testing.		
22.	Were you recently infected with Mycobacterium tuberculosis?	Yes 🗆	No 🗆
23.	Do you have any of the following medical conditions:		510
	<ul> <li>Low body weight due to chronic malabsorption syndromes?</li> </ul>	Yes □	No 🗆
	<ul> <li>Lung disease silicosis caused by breathing in tiny bits of silica?</li> </ul>	Yes □	No 🗆
	- Diabetes?	Yes □	No 🗆
	- End stage renal disease or on hemodialysis?	Yes □	No 🗆
	- Head or neck cancer?	Yes □	No D
	- Leukemia?	Yes □	No
	- Lymphoma?	Yes □	No
	- Hematologic or reticuloendothelial disease?	Yes □	No
24.	Have you ever had any of the following procedures:		
	- Gastrectomy?	Yes □	No 🗆
	- Intestinal bypass?	Yes □	No 🗆
	- Solid organ transplant (e.g., kidney, liver, heart, lung, intestines, pancreas)?	Yes □	No
25.	Do you receive treatment with TNF-alpha antagonists (e.g., infliximab, etanercept), steroids (equivalent	Vas =	No
	of prednisone ≥ 15mg/day for ≥ 1 month) or other immunosuppressive medication?	Yes 🗆	No.
If YE	ES to any of the questions in this section, TST test is indicated. If YES to HIV positive questions or on immute therapy, consider referal for IGRA testing.	unosuppr	essive
La Karin	Retesting should only occur in persons who previously tested negative and have new risk factors since last	assessme	ent.

## Report of Tuberculosis Screening

Name: _			Date of Birth:		_ Date:	
го wнo	M IT MAY CONCERN: The ab	ove individual has bee	en evaluated by (PRINT	OR TYPE):		
Name of	Pharmacist:					
Name of	Pharmacy:		Tel.	#:		
	cy Address:					
TB Scree	ning and/or Testing Conclus	ons				
1.	No Symptoms or Risks Ider	tified on TB Risk Asse	ssment			
	identified for infection or femployed in a low risk factorial Health-Care Settings, 2005	or developing active in the control of the control	TB if infected, and no k C "Guidelines for Preve testing.	known recent co enting the Trans	oms suggestive of active TB ontact with active TB. Heal smission of Mycobacterium t this time due to the absen	th care worker tuberculosis in
	suggestive of active TB.	en, en de dideadens d				1
	If one of these two stateme	A [1] I I I I I I I I I I I I I I I I I I I	e appropriate statemei statement applies, go t		ection IV and select statem	ent "A".
	If in a health care set				are present, go to Section II	<b>1.</b>
II.	Symptoms Consistent with	Potential Tuberculosi	s are Present			
	when the individual prefe	rs to pursue an evalu		of isolation pre	liately. This notification is a ecautions. Proceed to section I, go to section III.	
III.	Testing for TB Infection via	Tuberculin Skin Test	record both tests if a 2	-sten TST was re	equired)	
014				Site:		
			IIIIG	Jite.		
	Pharmacist Name:		Dogulton	mana.	Interpretation: Negative 🗆	Positivo 🗔
	Pharmacist Name:	The state of the s	Results:	mm	Interpretation: Negative	Positive 🗆
	#2 TST Lot:	Date Adn	ninistered:	Time: _	Site:	
	Pharmacist Name:					
	Date read:	Time:	Results:	mm l	nterpretation: Negative 🗆	Positive
	Pharmacist Name:					
			gative, proceed to sect			
		If test(s) above are p	ositive, proceed to sect	tion IV and selec	ct statement "B".	
IV.	TB Screening/Testing Cond					
	<ul> <li>A. Based on the TB Screen communicable form.</li> </ul>	eening and/or TST, the	e individual listed above	e does not dem	onstrate a risk of having tub	erculosis in a
	☐ B. Active tuberculosis of	annot be ruled out in	the individual listed ab	ove. The individ	dual was counseled and refe	erred to (check
	all that apply):					
	☐ Primary Care Provid	ler (Name):		(T	el.)	
	☐ Local Health Depar	tment (Name):		(T	el.)	
			y Health Care Providers			
	This individual should	be treated by a PCP fe	or:			
	☐ Evaluation for Activ	e TB Disease Based o	n Symptoms (pharmac	ist must immedi	iately call local health depai	rtment);
			Iormal Chest Radiograp			
			diograph, but LTBI Prev		ed;	
	☐ IGRA since Individu			weeks out of the second	5.42	
	☐ IGRA since Individu					
			mised or on Immunosuj	ppressive Thera	py;	
	☐ Positive TST Result			NEW SELECTION OF STREET	. 40	

Adopted by Virginia Board of Pharmacy:

**Effective Date:** 

Appendix F. Quality control (QC) procedural observation checklists

Date	Trainer (QC by)			Traine	e (TST placed by)
		Scoring:	✓ or Y = Yes	X  or  N = No	NA = Not Applicable
2. Syringe purified	Preliminary   Uses appropriate hand hygiene methods before starting.   Screens patient for contraindications (severe adverse reactions to previous TST).*   Uses well-lit area.   Syringef filled with exactly 0.1 mL of 5 tuberculin units (TU) purified protein derivative (PPD) antigens     Removes antigen vial from refrigeration and confirms that it is 5 TU PPD antigen.     Checks label and expiration date on vial.     Marks opening date on multidose vial.     Fills immediately after vial removed from refrigeration.     Cleans vial stopper with antiseptic swab.     Twists needle onto syringe to ensure tight fit.				Holds needle bevel-up and tip at 5°-15° angle to skin. Inserts needle in first layer of skin with tip visible beneath skin. Advances needle until entire bevel is under the first layer of skin. Releases stretched skin. Injects entire dose slowly. Forms wheal, as liquid is injected. Removes needle without pressing area. Activates safety feature of device per manufacturer's recommendations, if applicable. Places used needle and syringe immediately in puncture-resistant container without recapping needle. Immediately measures wheal to ensure 6–10 mm in diameter (Actual wheal measurementmm). If blood or fluid is present, blots site lightly with gauze or cotton ball. Discards used gauze or cotton ball according to local standard precautions. If the TST is administered incorrectly (too deeply or too shallow) and the wheal is inadequate (<6 mm), a new TST should be placed immediately, Applying the second TST on the other arm or in a different area of the same arm (at least 2 inches from the first site) is preferable so that the TST result will be easier to read.
3.TST adn	Returns antigen vial to the refrig ninistration site selected and Selects upper third of forearm w	cleaned ith palm up			Documents all information required by the setting (e.g., date and time of TST placement, person who placed TST, location of injection site and lot number of tuberculin).  Uses appropriate hand hygiene methods after placing TST.
	elbow, wrist, or other injection si Selects site free from veins, lesi scars, and muscle ridge. Cleans the site with antiseptic si rom center to outside.	ons, heavy l	ircular motion	5. Ex inj	planation to the client regarding care instructions for the ection site  The wheal (bump) is normal and will remain about 10 minutes.  Do not touch wheal; avoid scratching.
Allows site to dry thoroughly before administering antigen.  4. Needle inserted properly to administer antigen  Rests arm on firm, well-lit surface.  Stretches skin slightly.††					Avoid pressure or bandage on injection site.  Rare local discomfort and irritation does not require treatment.  May wash with soap and water (without pressure) after 1 hour.  No lotions or liquids on site, except for light washing, as above.  Keep appointment for reading.

Use a ¼-½-inch 27-gauge needle or finer, disposable tuberculin (preferably a safety-type) syringe.

Preventing tuberculin antigen and vaccine (e.g., Td toxoid) misadministration is important. Measures should include physical separation of refrigerated products, careful visual inspection and reading of labels, preparation of PPD for patient use only at time of testing, and improved record keeping of lot numbers of antigens, vaccines, and other injectable products. SOURCE: CDC. Inadvertent intradermal administration of tetanus toxoid-containing vaccines instead of tuberculosis skin tests. MMWR 2004;53:662-4.

\*\* If neither arm is available or acceptable for testing, the back of the shoulder is a good alternate TST administration site.

SOURCE: National Tuberculosis Controllers Association, National Tuberculosis Nurse Consultant Coalition, Tuberculosis nursing: a comprehensive guide to patient care. Smyrna, GA: National Tuberculosis Controllers Association; 1997.

th Stretch skin by placing nondominant hand of health-care worker (HCW) on patient's forearm below the needle insertion point and then applying traction in the opposite direction of the needle insertion. Be careful not to place the nondominant hand of the HCW opposite the administration needle if the patient is likely to move during the procedure, which might cause an accidental needle-stick injury to the HCWs. In children and others who are likely to move during the procedure, certain trainers prefer stretching the skin in the opposite direction of the needle insertion by placing the nondominant hand of the HCW under the patient's forearm. This method should not be used for persons with poor skin turgor.

<sup>\*</sup> Severe adverse reactions to the TST are rare but include ulceration, necrosis, vesiculation, or bullae at the test site, or anaphylactic shock, which is substantially rare. These reactions are the only contraindications to having a TST administered.

Prefilling syringes is not recommended. Tuberculin is absorbed in varying amounts by glass and plastics. To minimize reduction in potency, tuberculin should be administered as soon after the syringe has been filled as possible. Following these procedures will also help avoid contamination. Test doses should always be removed from the vial under strictly aseptic conditions, and the remaining solution should remain refrigerated (not frozen). Tuberculin should be stored in the dark as much as possible and exposure to strong light should be avoided. SOURCE: American Thoracic Society, CDC, Infectious Disease Society of America. Diagnostic standards and classification of tuberculosis in adults and children. Am J Respir Crit Care Med 2000;161:1376-95.

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Date					Perculin Skin Test (TST) Results — Palpation Method  Fraince (TST placed by)
Duit	111111111111111111111111111111111111111	Scoring:			NA = Not Applicable
1. Prelim	inary	20			Marks dots transverse (perpendicular) to long axis of forearm.
	Uses appropriate hand hygiene			4. Plac	cing and reading ruler
	Keeps fingernails shorter than fingertips to avoid misreading TST result.  Keeps TST reading materials at hand (eyeliner pencil or ballpoint pen,* and ruler).  Uses well-lit area.  Inspects for the site of the injection.				Places the "0" ruler line inside the edge of the left dot. Reads the ruler line inside right dot edge (uses lower measurement i between two gradations on millimeter scale) (Figure 1).  Uses appropriate hand hygiene methods after reading TST result.
2 Palnat				5. Doc	cumenting results
	2. Palpate — finding margin ridges (if any)  ———————————————————————————————————				Records all TST results in millimeters, even those classified as negative. Does not record only as "positive" or "negative." Records the absence of induration as "0 mm."  Correctly records results in mm; only a single measured induration in mm should be recorded.  Trainee's measurementmm.  Trainer's (gold standard) measurementmm.  Trainee's result within 2 mm of gold standard reading?§
II indura	tion is present, continue with t	nese steps			Yes No
3. Placin	ng marks				
	Holds palm over injection site. Cleanse site with antiseptic swacenter to outside. Uses fingertips to find margins Marks the induration by placing induration. Inspects dots, repeats finger margin, and adjusts dots if nee	of the indura small dots o	ation. on both sides of t	ulcera FDA N 800-F	In rare instances, the reaction might be severe (vesiculation, tion, or necrosis of the skin). Report severe adverse events to the MedWatch Adverse Events Reporting System (AERS), telephone: DA-1088; fax: 800-FDA-0178; http://www.fda.gov/medwatch report 500, Physicians' Desk Reference.

If induration is not present, record the TST result as 0 mm and go to the end of this form (Documenting results).

<sup>\*</sup> A fine-tipped eyeliner pencil or ballpoint pen can be used as a marker. An eyeliner pencil is useful for TST training and for blinded independent duplicate readings (BIDRs) because the dots are easy to remove with a dot of lubricant (e.g., baby oil). Alternative TST result reading methods have been described, including the pen method.

<sup>§</sup> For example, if the TST trainer reads the TST result (the gold standard reading) as 11 mm, the trainee's TST reading should be between 9–13 mm to be considered correct.

The TST reading should be based on measurement of induration, not erythema, using a Mantoux skin test ruler. The diameter of induration should be measured transversely to the long axis of the forearm and recorded in millimeters. Record no induration as zero (0) millimeters.

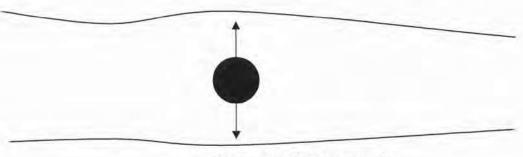
#### Classification of the Tuberculin Skin Test Reaction<sup>1</sup>

≥5 mm Induration	≥10 mm Induration	≥15 mm Induration
Considered positive in the following persons:  Persons living with the human immunodeficiency virus (HIV)  Recent contacts of a person with Tuberculosis (TB) disease  Persons with a chest radiography (CXR) findings suggestive of previous TB disease  Patients with organ transplants  Persons who are immunosuppressed for other reasons (e.g., prolonged therapy with corticosteroids equivalent of ≥15 mg per day of prednisone for for 1 month or longer or those taking tumor necrosis factoralpha [TNF-alpha] antagonists)	Considered positive in the following persons:  Persons born in countries where TB disease is common including Mexico, the Philippines, Vietnam, India, China, Haiti, and Guatemala, or other countries with high rates of TB  Persons with substance use disorders  Mycobacteriology laboratory personnel  Residents and employees of high-risk congregate settings such as nursing homes, homeless shelters, or correctional facilities  Persons with certain medical conditions that place them at high risk for TB, such as silicosis, diabetes mellitus, severe kidney disease, certain types of cancer, and certain intestinal conditions  Persons <90% of ideal body weight  Children aged <5 years  Infants, children, and adolescents exposed to adults in high-risk categories	Considered positive in any person, inducing persons with no known risk factors for TB.

<sup>\*</sup>All tests should be interpreted based on patient risk and test characteristics.

A negative TST result does not exclude LTBI or active TB disease.

<sup>&</sup>lt;sup>1</sup> Testing and Treatment of Latent Tuberculosis Infection in the United States: Clinical Recommendations, Appendix 1: Interpretation of Test Results.(NTCA/NTSC, 2021). Available at: https://survey.alchemer.com/s3/6183608/2021-LTBI-Testing-Treatment-Publication-Registration



Measure TSTs Transversely

CDC LTBI: A Guide for Primary Health Care Providers

https://www.cdc.gov/tb/publications/ltbi/pdf/LTBIbooklet508.pdf

Figure 1: The TST Booster Phenomenon

As the years pass, the person's ability to react to tuberculin lessens. Occurs mainly in previously infected older adults whose ability to react to tuberculin has decreased over time. These people should still be considered for LTBI treatment after ruling out TB disease, particularly if they have risk factors for progression to disease.

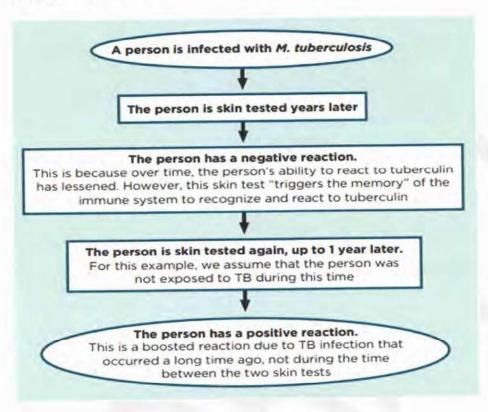


Figure 2: Two-Step TST Testing

Two-step testing is a strategy used to reduce the likelihood that a boosted reaction will be misinterpreted as a recent infection (Figure 2). Two-step testing should be used for the initial skin testing of persons who will be retested periodically. If the reaction to the first TST is classified as negative, a second TST should be repeated 1 to 3 weeks later. A positive reaction to the second TST likely represents a boosted reaction. Based on this second test result, the person should be classified as previously infected. This would not be considered a skin test conversion or a new TB infection; however, the patient may still be a candidate for LTBI treatment. If the second skin test result is also negative, the person should be classified as having a negative baseline TST result. If either the first or second test result is positive, the individual should be referred for follow-up and evaluation for LTBI treatment.