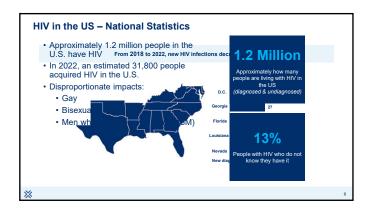
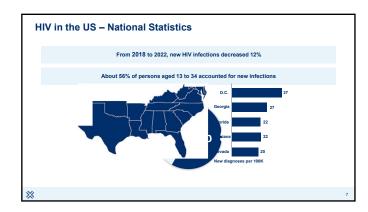
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HIV Facts, Prevention and Care	
Micah Derby, DO AAHIVS	
	-
EXPLORE HEALTHCARE SUMMIT	
HEALTHOARE SOMMIT	
Learning Objectives	
Be informed of facts surrounding HIV in the US and Oklahoma	
Identify symptoms related to HIV infection	
Understand the screening indications and diagnostic algorithm of HIV Be able to summarize treatment options and clinical care in HIV	
 List indications for pre-exposure prophylaxis (PrEP) to HIV 	
Describe efficacy data in various populations at risk for HIV Construct an appropriate PrEP plan for a patient	
Identify appropriate follow up for a PrEP patient	
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HIV	
HIV in the US - National Statistics	
HIV in Oklahoma – State Statistics	
Clinical Presentation and Care in HIV	

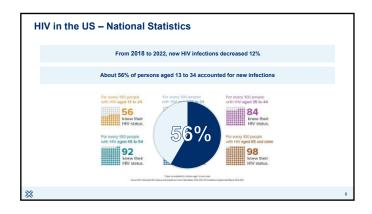


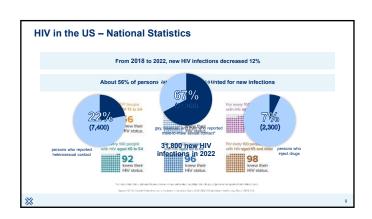
HIV in the US – National Statistics

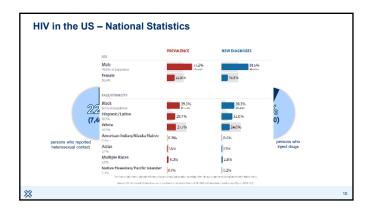
Approximately 1.2 million people in the U.S. have HIV In 2022, an estimated 31,800 people acquired HIV in the U.S. Disproportionate impacts: Gay Bisexual Men who have sex with men (MSM) 1.2 Million Approximately how many people are living with HIV in the US (diagnosed & undiagnosed) 1.3% People with HIV who do not know they have it







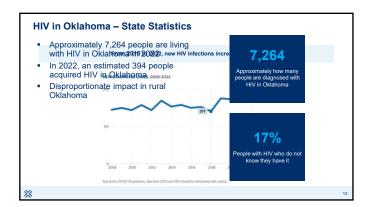


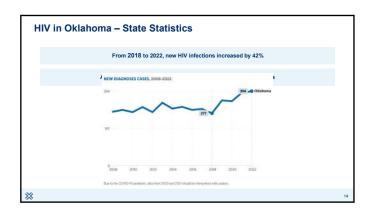


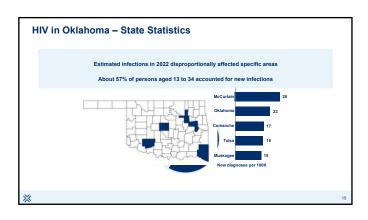


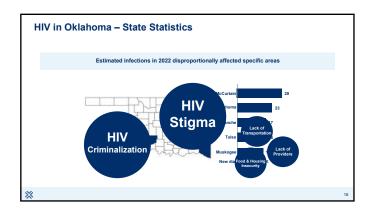
HIV in Oklahoma – State Statistics

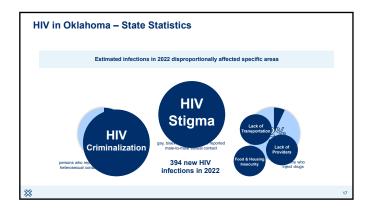
HIV in Oklahoma – State Statistics Approximately 7,264 people are living with HIV in Oklahoma in 2022 In 2022, an estimated 394 people acquired HIV in Oklahoma Disproportionate impact in rural Oklahoma HIV in Oklahoma

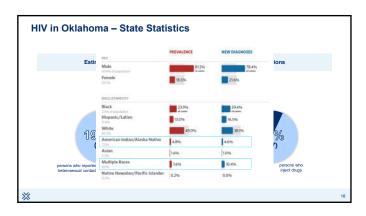




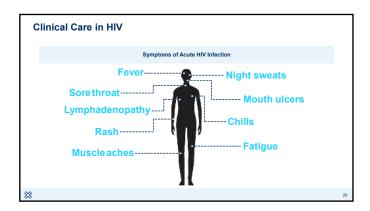


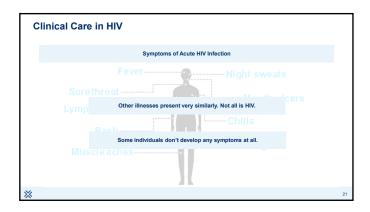


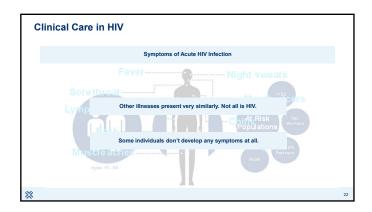


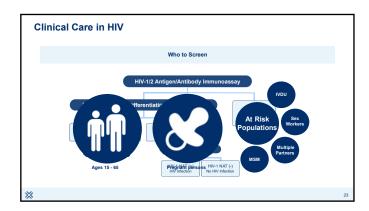


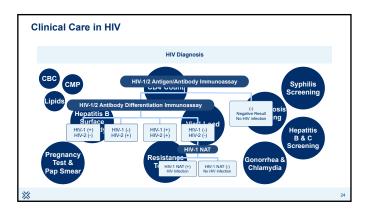


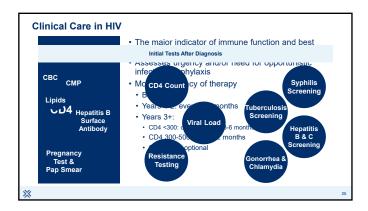




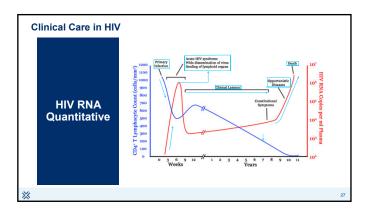


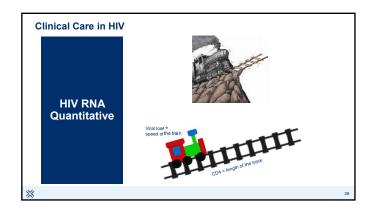


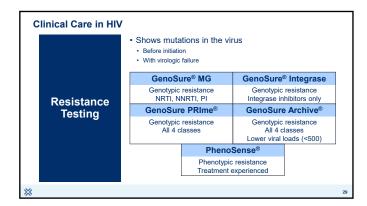


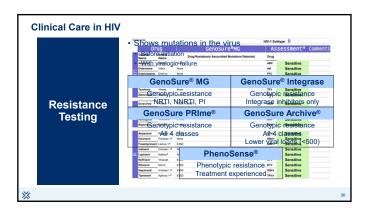


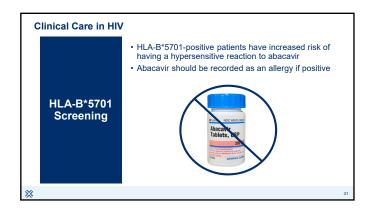
Clinical Care in HIV - Goal: viral suppression or undetectable viral load - <20-75 copies/mL depending on assay - Monitors response to therapy - Baseline - Recheck in 2-4 weeks from initiation - Every 4-8 weeks until <200 copies/mL (suppression) - Every 3-4 months with continued suppression - Every 6 months with suppression for 2+ years - Isolated "blips" can occur - Transient, not thought to predict failure

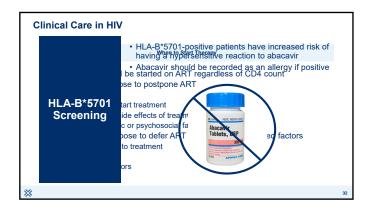


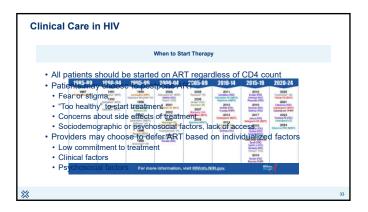


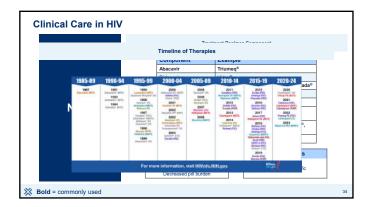


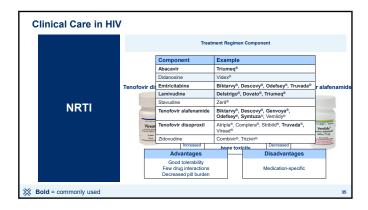


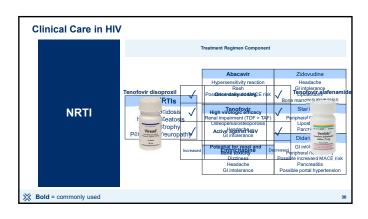


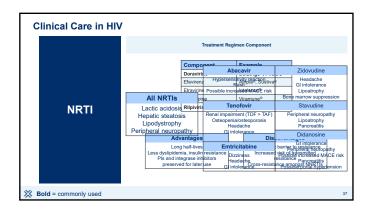




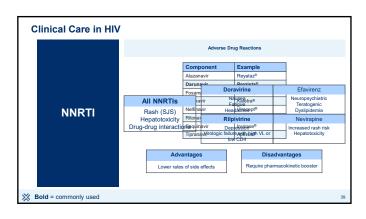






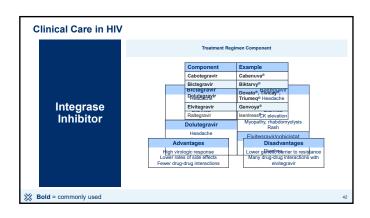


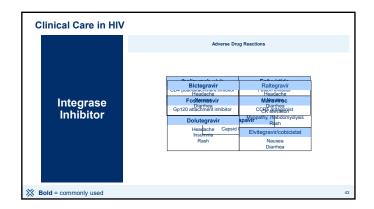
Clinical Care in HIV										
			Treatment Re	egim	en Component					
		Component Doravirine			Example Delstrigo®, Pifeltro®]			
]			
		Efaviren:		-	Atripla®, Sustiva	8	- Ffavirenz			
		Etravirin	9	т.	Intelence®		Neuropsychiatric			
	All NNRTIs			-	Viramune®		Teratogenic			
NNRTI	Rash (SJS)	Rilpiviri		_	Cabenuva®, Od	efsey®	Dyslipidemia			
	Hepatotoxicity		R	ilpiv	ririne		Nevirapine			
	Drug-drug interact				pression ure with high VL or		Increased rash ris Hepatotoxicity	k		
	Advantages			low (advant				
	Long half-lives						to resistance			
	Less dyslipiden	nia, insulir	resistance		Increased	d risk of	transmitted			
			Pls and integ	egrase inf d for later				resistan	nongst NNRTIs	
	preserve	a ioi latei	400		0.033-103130	arioo dii	iongot resett 118			
■ Bold = commonly used								38		

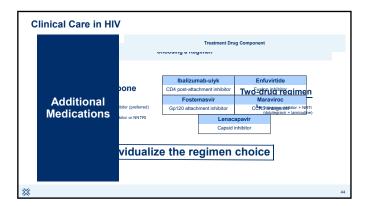


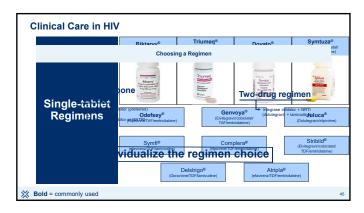
Clinical Care in HIV				
		Treatment Regi	men Component	
		Component	Example	
			unayir _{az®}	Fosamprenavir
Protease Inhibitor		Darunavir	Prezista®	Rash sible increase MACE risk
		Fosamprenavir Ata	zakneavivia®, Telzir®	BIDIE IIICIESSE WACE IISK
	All Pls	Lopinavir	Kaletra®	Nelfinavir
	Dyslipidemia	Manhoo	on and a second	Diarrhea
	Lipodystrophy	Ritonavir	Kaletra®, Norvir®	
	Hepatotoxicity		Invirase	Saquinavir
	GI intolerance	Tipranavir	Aptivus®	R and QT prolongation
	Drug-drug interaction		F prolongation	
	Advantages Indina Disadvanta			
	Lower rates of side effects Nephrolithia Riequire pharmacokinetic booster			
	LOWER rates of side priects Treatmental and an arrangement priects			
X Bold = commonly used				40

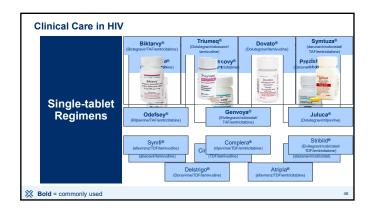
Clinical Care in HIV		
	Adverse Drug Reactions	
Protease Inhibitor	Component Example Darunavir Fosamprenavir Rash Biletegavir Selktarvy Fosamprenavir Rash Alazanavir Alapota Fosamprenavir Rash Biletegavir Selktarvy Fosamprenavir Alazanavir Alazanavir Dyslipidemia Lipodystrophy Hepatotoxicity Hepatotoxicity Gi intolerance Drug-drug interactions Pramd Cir phospation/Selformatoges Fewer drug-drug interactions Indinavir Lower arises of side effects, sin rystastand-MIX grays - rug interactions with preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the preventing side effects and preventing side effects are recommended by the prevention of the pre	
X Bold = commonly used		41

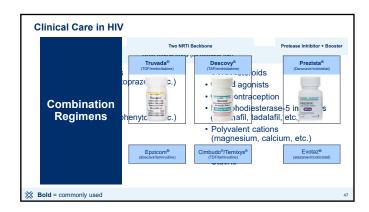


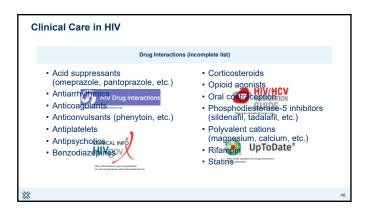






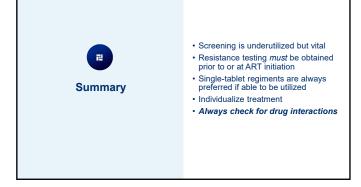




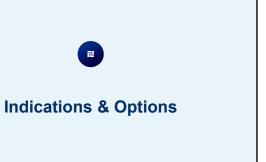


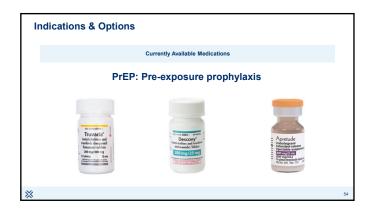
Clinical Care in HIV	
Drug Interactions (incomplete list)	
Definition: inability to achieve or maintain viral suppression Carefully assess cause of virologic failure Evaluation HIV Drug Interactions to the person is on therapy discontinuation Develop new regimen with two, preferably three, fully active agents Goal is to: Alternativ Cunical INFO nize toxicity, preserve CD4 UpToDate* Can initiate sauvage merapy with fostemsavir, ibalizumab or enroll in clinical trial	
*	49

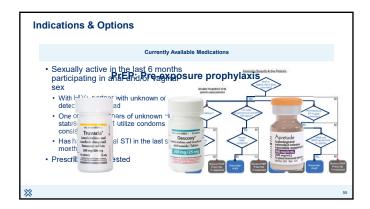
Clinical Care in HIV	
Virologic Failure	
Definition: inability to achieve or maintain viral suppression Cal Count Carlefully assess cause of virologic failure Levaluate nonadherence, drug interactions, social barriers, food requirements finished to copie min. Resistance testing should occur while the person is on therapy or within 4 weeks for the continuation Production of the continuation (MAC) Production of the continuation (MAC) Production of the continuation (MAC) Production of the continuation Can initiate salvage therapy with fostemsavir, ibalizumab or enroll in clinical trial	mplex
*	

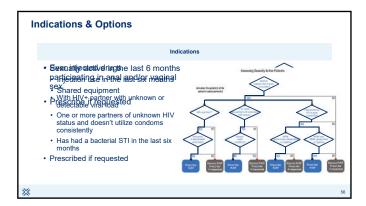


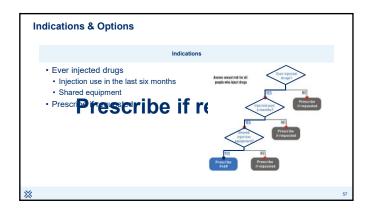








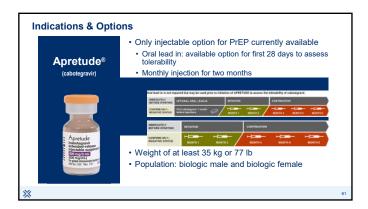


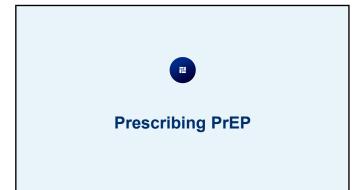


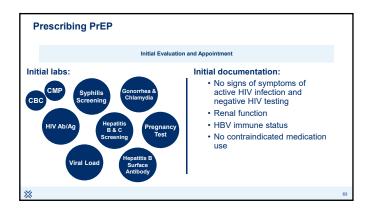


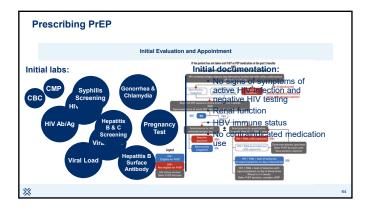














Continued Care & Follow Up

Counseling Continue with routine appointments for counseling and routine testing Counseling points: PrEP adherence – no consensus on timing of maximal protection Blood: 20 days Cervicovaginal tissue: 20 days Rectal tissue: 7 days

Continued Care & Follow Up

Safe sex practices

Reassess HIV exposures and consideration for cessation if applicable

Continued Care & Follow Up	
Counseling	
• Every 3 months: • Every 3 months: • Continue with routine appointments for counseling and routine testing • Collabelli Method and viral load • Series addressed and series and	996
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Re	esources	
	https://www.cdc.gov/hv/ddat-seesech/lacts-stats/index.html? HV Prevention: Oxidahoma Okiahoma Anong Seven States With Highest Rural HV Burden US Phalic Health Service, Pre-organic Prophysias for the Prevention of HIV infections in the United States-2014 Mechalick DA et al. Apal Human pagallomyrips in jedgon god associated neoplastic lesions in men who have sex with men: a systematic review and nether-adapsilse. Lancel Chord 2012; 13,487-508. Centers for Disease Control and Prevention (CDC), 2015, Nov 27. Vtast Signs: Estimated Percentages and Numbers of Adults with indications for Preventions of Prevention (CDC), 2015, Nov 27. Vtast Signs: Estimated Percentages and Numbers of Adults with indications for Preventions of Prevent HV Acquisition—United States, 2015, Morbiddy and Mortally Weekly Report (MMWR). Acquisition—United States, 2015, Morbiddy and Mortally Weekly Report (MMWR). GCC. Diagnoses of HV If Infection, to receivations of a selected characteristics, 2019, HV Surveillance Supplemental Report, 2019;32. GCidead, State of the HV Epidemic: Substantial Progress and the Challenges that Remain. Harby Investigation of the HV Epidemic Substantial Progress and the Challenges that Remain. GCIPT (Prevention of the HV Epidemic Substantial Progress and the Challenges that Remain. AGO [IP Investigation of the HV Epidemic Substantial Progress and the Challenges that Remain. AGO [IP Investigation of the HV Epidemic Substantial Progress and the Challenges that Remain. AGO [IP Investigation of the HV Epidemic Substantial Progress and the Challenges that Remain. ADSV. Deeper Look: PPER https://index.org/prevention/epidemic/substantial-and-substan	
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