Shareholder) Leigh Ragone, MS, GlaxoSmithKline (Shareholder)ViiV Healthcare (Employee) Taylor Cook, BS, Syneos Health (Employee) Angela Scheuerle, MD, ViiV (Independent Contractor) William R. Short, MD, Gilead Sciences (Individual(s) Involved: Self): Consultant; ViiV (Individual(s) Involved: Self): Consultant Claire Thorne, MSc, PhD, MSD (Grant/Research Support)ViiV Healthcare (Grant/Research Support, Other Financial or Material Support, Contributor to Think Tank)

75. High Rates of Virologic Suppression with DTG/3TC in Newly Diagnosed Adults with HIV-1 Infection and Baseline Viral Load >500,000 c/mL: 48-Week Subgroup Analysis of the STAT Study

Charlotte-Paige M. Rolle, MD MPH¹; Mezgebe Berhe, MD²; Tulika Singh, MD MS AAHIVS³; Roberto Ortiz, MD⁴; Anson K. Wurapa, MD⁵; Moti Ramgopal, MD FIDSA⁶; Dushyantha Jayaweera, MD, mrcog(uk), face⁷; Peter Leone, MD⁸; Jessica Matthews, BS⁸; Michael Cupo, Ph.D.⁹; Mark Underwood, PhD⁸; Kostas Angelis, PhD¹⁰; Brian Wynne, MD⁸;

Mark Underwood, PhD⁸; Kostas Angelis, PhD¹⁰; Brian Wynne, MD⁸; Deanna Merrill, PharmD, MBA, AAHIVP⁸; Christopher T. Nguyen, MD⁸; Jean A. van Wyk, MB,ChB⁸; Andrew Zolopa, MD⁸; ¹Orlando Immunology Center, Orlando, Florida; ²North Texas Infectious Diseases Consultants, Dallas, TX; ³University of California, Riverside, Palm Springs, CA; ⁴Bliss Healthcare Services, Orlando, Florida; ⁵Infectious Disease Specialists of Atlanta, Atlanta, GA; ⁶Midway Specialty Care Centers, Fort Pierce, Florida; ⁷University of Miami, Miami, Florida; ⁸ViiV Healthcare, Chapel hill, North Carolina ⁹GlaxoSmithKline, Collegeville, PA; ¹⁰GSK, London, England, United Kingdom

Session: O-16. HIV Treatment

Background. The primary analysis of the STAT study demonstrated the feasibility, efficacy, and safety of using DTG/3TC as a first-line regimen in a test-and-treat setting through 24 weeks, with therapy adjustments for baseline resistance or hepatitis B virus (HBV) co-infection. Here we present secondary analyses through Week 48 of virologic outcomes in participants by baseline viral load (VL).

Methods. STAT is a single-arm study of treatment-naive adults with HIV-1 infection who initiated DTG/3TC \leq 14 days after HIV-1 diagnosis without availability of screening/baseline laboratory results. If baseline testing indicated DTG or 3TC resistance, HBV co-infection, or creatinine clearance < 30 mL/min/1.73 m², then antiretroviral therapy (ART) was potentially adjusted and participants remained on study. Efficacy analyses included proportion of participants with HIV-1 RNA < 50 c/mL regardless of ART regimen at Week 48, among all participants (ITT-E missing = failure analysis).

Results. Of 131 enrolled, DTG/3TC treatment was adjusted in 10 participants, and of those with available data (n=7), all (100%) achieved HIV-1 RNA < 50 c/mL at Week 48. At Week 48, 82% (107/131) of all participants (Figure 1) and 97% (107/110) of those with available data (Figure 2) achieved HIV-1 RNA < 50 c/mL. Of participants with baseline VL \geq 500,000 c/mL, 89% (17/19) achieved HIV-1 RNA < 50 c/mL at Week 48; the remaining 2 withdrew from study. Of participants with baseline VL \geq 1,000,000 c/mL, 90% (9/10) achieved HIV-1 RNA < 50 c/mL at Week 48 (Table); the remaining participant withdrew consent. Of the 17 participants with baseline VL \geq 500,000 c/mL with available data through Week 48, 76% (13/17) achieved virologic suppression by Week 24. One participant with baseline VL \geq 500,000 c/mL switched from DTG/3TC before the Week 48 assessment. Of the 9 participants with baseline VL

 \geq 1,000,000 c/mL with available data through Week 48, most participants (8/9; 89%) were suppressed by Week 24.

Figure 1. Virologic outcomes at Week 48, overall and by baseline VL and CD4+ cell count: ITT-E missing = failure analysis.

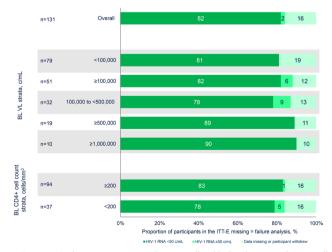


Figure 2. Virologic outcomes at Week 48, overall and by baseline VL and CD4+ cell count: observed analysis.

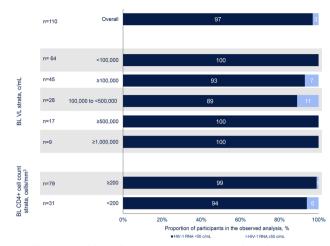


Table. Viral Load by Study Visit Among Participants with Baseline HIV-1 RNA $\geq\!\!1,\!000,\!000\ c/mL$

Participant		HIV-1 RNA (c/mL) by study visit							
	Baseline CD4+ cell count	Baseline	Week 1	Week 4	Week 8	Week 12	Week 24	Week 36	Week 48
A	410	68,706,840	518,812	9781	NA	90,912	NA*	-	-
в	128	13,987,640	123,843	1682	297	493	191/ 157 / 302	124	63/48
с	613	5,794,931	98,499	96	<40	<40	<40	<40	
D	534	5,034,556	33,293	304			<40	NA	<40
E	464	2,592,169	1046	115		<40†	<40	<40	<40
F	387	2,319,328	19,210	122		52	<40		
G	532	2,252,702	6241	136		42	<40	NA	<40
н	671	1,981,995	8373	245				<40	
1	56	1,291,792	2618	222	147	71	<40		
J	94	1,013,606	8646	725	242	185	<40		

Ver, In & annauxee. Participant confirmed many missed doses before Week 12 and withdrew consent due to incarceration. "Participant switched to DRV/COBI/FTC/TAF on Day 92 (Week 12) due to AE (rash); participant switched again to BIC/FTC/TAF on Day 113 (Week 12) due to a different rash.

Conclusion. These data provide evidence for the efficacy and feasibility of using DTG/3TC as a first-line regimen in a test-and-treat setting, including among participants with very high baseline VL.

Disclosures. Charlotte-Paige M. Rolle, MD MPH, Gilead Sciences (Grant/Research Support, Scientific Research Study Investigator, Speaker's Bureau)Janssen Infectious Disease (Scientific Research Study Investigator, Advisor or Review Panel member)ViiV Healthcare (Grant/Research Support, Scientific Research Study Investigator, Advisor or Review Panel member, Speaker's Bureau) Tulika Singh, MD MS AAHIVS, Gilead (Grant/ Research Support, Advisor or Review Panel member)ViiV (Grant/Research Support, Advisor or Review Panel member, Speaker's Bureau) Moti Ramgopal, MD FIDSA, Abbvie (Scientific Research Study Investigator, Speaker's Bureau)Gilead (Consultant, Scientific Research Study Investigator, Speaker's Bureau)Janssen (Consultant, Scientific Research Study Investigator, Research Grant or Support, Speaker's Bureau)Merck (Consultant, Scientific Research Study Investigator)ViiV (Consultant, Scientific Research Study Investigator, Speaker's Bureau) Dushyantha Jayaweera, MD, mrcog(uk), face, Gilead (Research Grant or Support)Janssen (Research Grant or Support)viiv (Research Grant or Support) Peter Leone, MD, viiv healthcare (Employee) Jessica Matthews, BS, ViiV Healthcare (Employee) Michael Cupo, Ph.D., GlaxoSmithKline (Employee) Mark Underwood, PhD, GlaxoSmithKline (Shareholder)ViiV Healthcare (Employee) Kostas Angelis, PhD, GSK (Employee, Shareholder) Brian Wynne, MD, ViiV Healthcare (Employee, Shareholder, I have shares in GSK, the part owner of ViiV) Deanna Merrill, PharmD, MBA, AAHIVP, GlaxoSmithKline (Shareholder)ViiV Healthcare (Employee) Christopher T. Nguyen, MD, ViiV Healthcare (Employee) Jean A. van Wyk, MB, ChB, GlaxoSmithKline (Shareholder)ViiV Healthcare (Employee) Andrew Zolopa, MD, GlaxoSmithKline (Shareholder)ViiV Healthcare (Employee)

76. Effects of the "Undetectable = Untransmittable" ("U=U") Educational Campaign on Treatment Outcomes and Perceptions among People Living with HIV in North American Countries

Frank Spinelli, MD¹; Bruce Richman, JD²; Patricia De Los Rios, MSc¹; Benjamin Young, MD, PhD¹; Marvelous Muchenje, BSW, MSc. in Global Health¹; Nicolas Van de Velde, PhD¹; Chinyere Okoli, PharmD, MSc, DIP¹; ¹ViiV Healthcare, Sag Harbor, NY; ²Prevention Access Campaign, New York, New York

Session: O-16. HIV Treatment

Background. The educational campaign "Undetectable = Untransmittable" (U=U) began in 2016 to improve the well-being of people living with HIV (PLHIV) and recalibrate HIV-related social norms. As medical practice can vary by region, we examined reports from PLHIV in North American countries to identify if the campaign affected healthcare provider (HCP) communication of U=U and if positive health outcomes differed by U=U-informed status or country.

Methods. Data were collected from the 2019 Positive Perspectives survey of PLHIV in Canada (n=120), Mexico (n=63), and the United States (US; n=400) and stratified by country. Outcomes were self-rated mental and sexual health ("Good"/"Very good"), viral suppression, and sharing of HIV status. Treatment perceptions were also assessed.