

2023 Spring Conference

Mon 24th – Wed 26th April Gateshead, UK



HIV and Resistance

Chair: Nicola Mackie

This educational event is supported by



Highly Treatment Experienced: what it means & best management

Laura Waters Mortimer Market Centre, London



Highly treatment experienced **Definition & management**

Laura Waters FRCP MD Consultant Physician Sexual Health & HIV **CNWL NHS Trust**



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Conflicts of interest

Speaker/advisory fees

ViiV, MSD, Janssen, Gilead, Pfizer

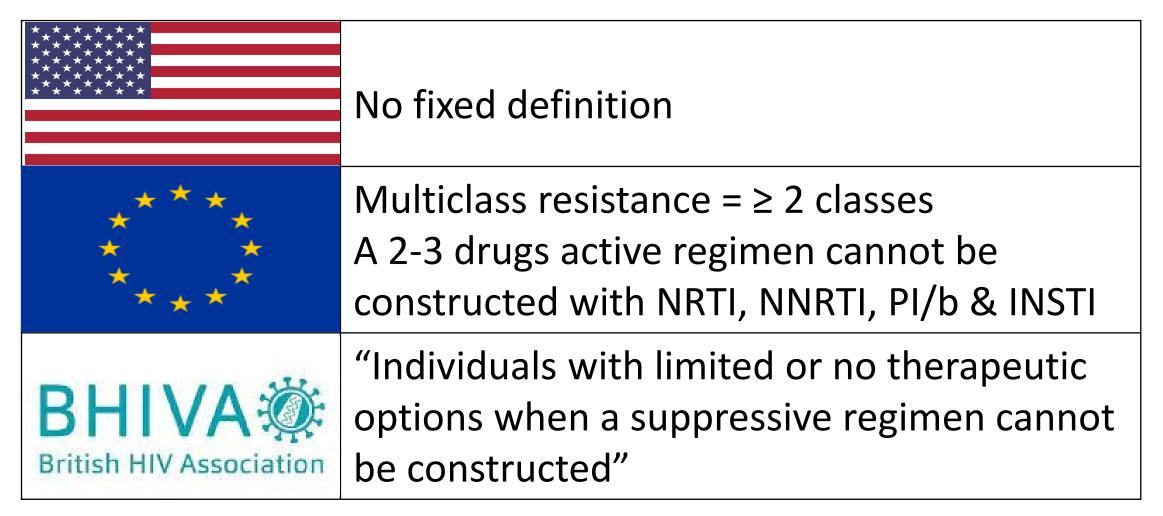
Investigator on trials Gilead, ViiV, MSD & Janssen

Geographic I live and work in England



DEFINITION

Guidelines

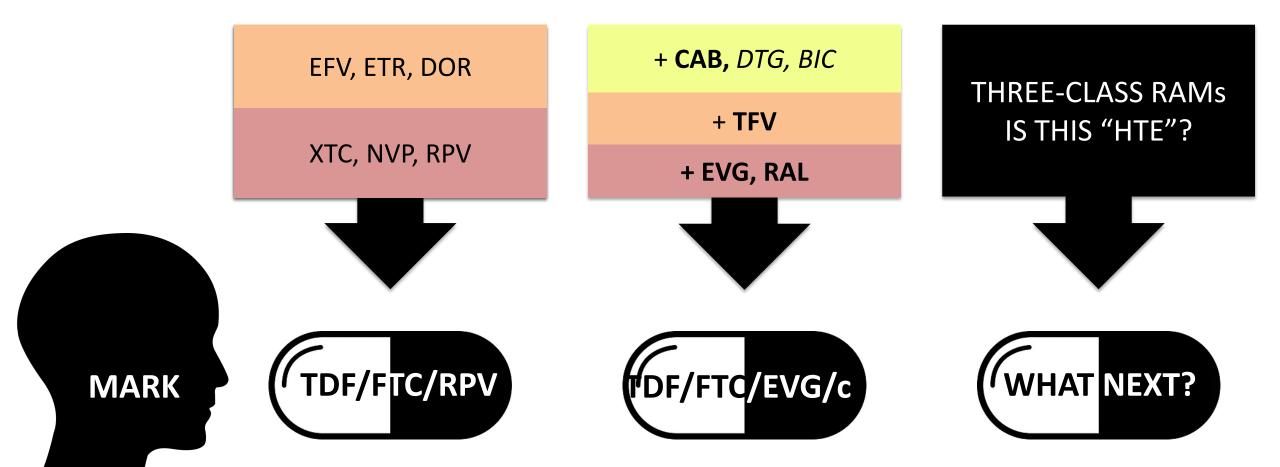


Terminology

HIGHLY TREATMENTHIGHLY TREATMENTLIMITED TREATMENTEXPERIENCEDEXPOSED?OPTIONS? CHOICE?

Implies failure & a longImplies failure & a longA more inclusive &history of taking ART?history of taking ART?accurate term?

An example....



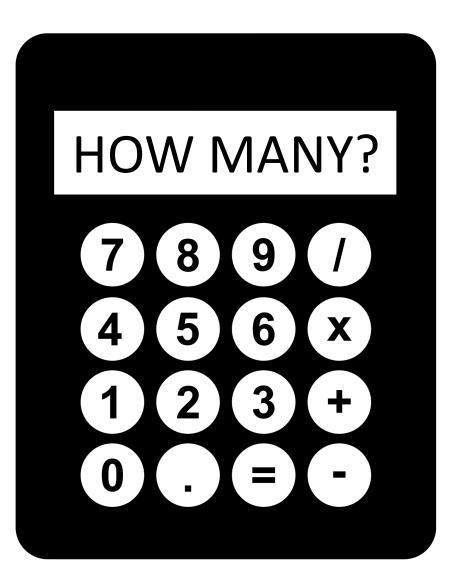
A reasonable definition?

LIMITED TREATMENT OPTIONS (LTO)

Resistance to 3 or more of: NRTI, NNRTI, PI & INSTI Not possible to construct a reasonable regimen equivalent to at least 2 active agents where at least 1 is high barrier

CHALLENGES

1. Identifying & quantifying people with LTO



2. Interpreting trial findings



3. (Un)compassionate access schemes





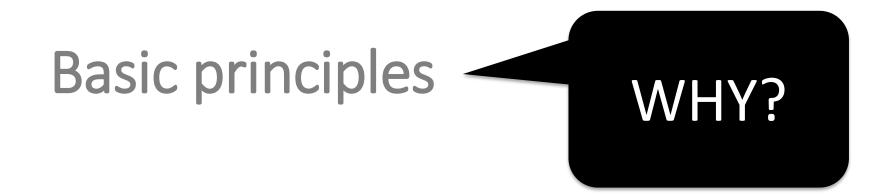
Product X will be provided until such time that it is commissioned routinely.

Falling between the gaps

LICENSES & COMMISSIONING POLICIES

NEED FOR NOVEL HIV DRUGS

MANAGEMENT & EVIDENCE



LISTENING, TIME & KINDNESS



ADHERENCE & UNDERSTANDING



MDT & PEER SUPPORT



Language

POORLY ADHERENT

People are not "treatment failures"

Treatments fail people

Basic principles

RESISTANCE
TESTING

"AVOID ADDING 1 DRUG TO A FAILING REGIMEN"

On failing therapy or within 4 weeks of drug cessation

Consider all historical resistance

NADIA challenges this mantra!

TDF/XTC superior to ZDV/3TC....

AVOID DRUGS THAT ADD LITTLE IF RAMs PRESENT

NNRTI: particularly EFV, NVP, RPV

1st generation INSTI

T-20

Continue ART in presence of viraemia

ACCUMULATING RESISTANCE, TOXICITY



REDUCED DISEASE PROGRESSION

BHIVA: "we recommend against discontinuing or interrupting ART"

Fostemsavir, ibalizumab & lenacapavir R = randomized; NR = non-randomised

	FOS: BRIGHTE	IBA: TMB-301	LEN: CAPELLA
Mechanism	gp120 inhibitor	CD4 mAb	Capsid inhibitor
Sample size	371 (272 R, 99 NR)	40 W24; 25 in EAP to W48	72 W24 (36 R <i>,</i> 36 non-R)
Inclusion	Exhaustion* all ARVs ≥4/6 classes; R = 1-2 active ARVs; VL >400 on ART	Resistant to ≥1 ARV in 3 classes; ≥1 active OBR ARV; VL >1000 on ART	Resistant ≥2 ARVs in 3/4 & ≤2 active ARVs 4 main classes: VL >400 on ART
New OBR ARVs	15% NR, 4% total IBA	43% FOS	24% IBA, 11% FOS
VL <40-50	R 54% ; NR 38% at W48	43% W25; 59% (M=F) W48	81% W24 (all); 78% W52 (R only)
CD4 change	+ 139 cells/mm ³ at W48	+ 62 cells/mm ³ at W25	+ 84 cells/mm ³ at W52
PDVF & RAMs	R 18%; 43% gp120 RAMs	10 CVF, 90% lower IBA susc	Total: 29% W24; 38% LEN RAMs Nil W24-W48 (R cohort only)

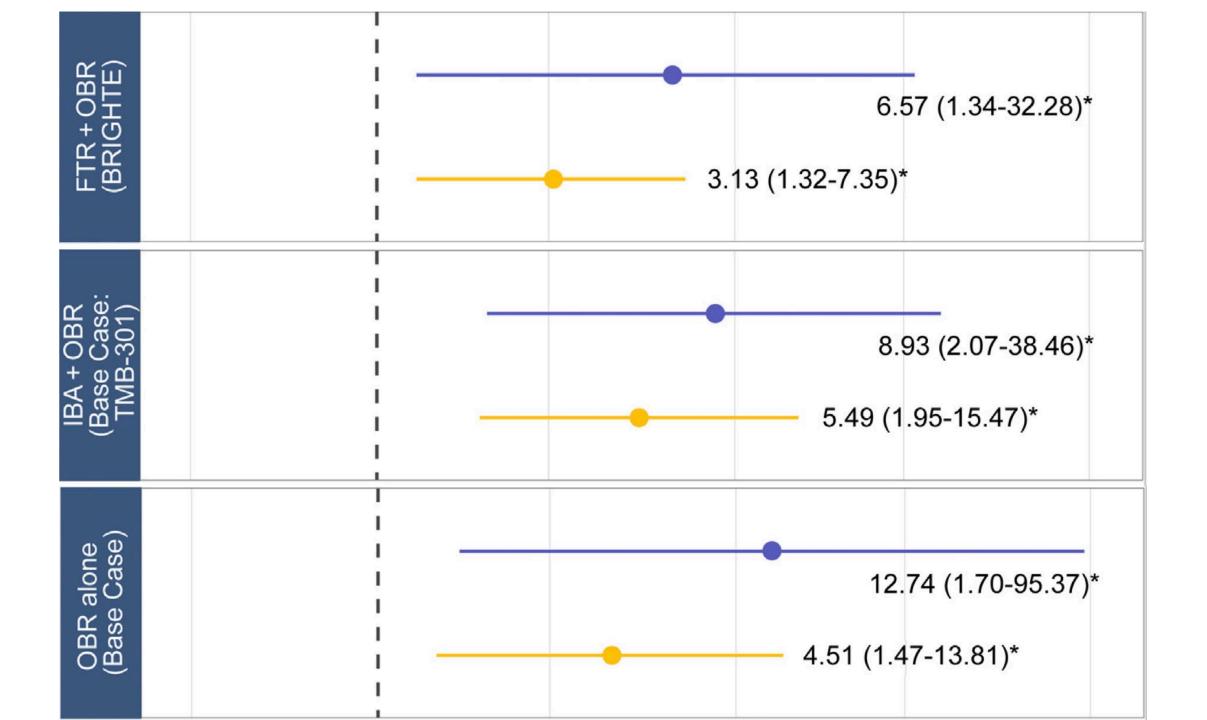
BRIGHTE: NEJM 2020 382:1232-1243; *including resistance, toxicity, side effects, contraindications, reluctance to use T20; NR = zero options **TMB-301**: NEJM 2018 379:645-654 + HIV Glasgow 2022; **CAPELLA**:

Indirect Treatment Comparisons of Lenacapavir Plus Optimized Background Regimen Versus Other Treatments for Multidrug-Resistant Human Immunodeficiency Virus

Iro Chatzidaki, MSc, Tristan Curteis, MSc, Hannah Luedke, MRes, Dylan J. Mezzio, PharmD, MS, Martin S. Rhee, MD, Eve McArthur, BSc, Lucy A. Eddowes, PhD Value Health 2022: S1098-3015(22)04785-4

Study	SIN	1UL	.AT	ED T	REATN	/IENT		mber of evious agents,	OSS ≥ 2, n (%)
CAPELLA, ^{32,33} randomized cohort		COMPARISON							7 (29) 3 (25)
BRIGHTE, ¹⁰ all randomized participants									NR
TMB-301 ⁷	IBA 800 mg Q2W + OBR	40	51 (11) 4.5 (0.8)	150 (182)	20 (8)	11	(5)	23 (58)
TMB-202 ⁴¹	IBA 800 mg Q2W + OBR	59	48	5.1	106 (91)	17 (4)	NR		NR

+15 OBR studies e.g. DUET, MOTIVATE, VIKING



Basic principles

BHIVA

Include at least 2, preferably 3, fully active agents

At least 1 active PI/b (preferably DRV) + an agent with a novel mechanism of action e.g. INSTI, MVC, FOS, IBA, LEN, other Ix agents

DHHS

Is one fully active high barrier drug available?

Consider combining partially active NRTI, 2nd generation INSTI, PI with new classes. BD DTG or DRV if RAMs. OFFICIAL



Clinical Commissioning Policy Fostemsavir for multi-drug resistant HIV-1 infection (adult) (URN 2108) [201008P]

Publication date: October 2022 version number: v1.0

Needs assessment

2016: 2,400 people with viraemia, 3% with PI RAMs = 70 in need

Eligibility

Not suppressed on existing ART **OR** Suppressed on highly complex ART where FOS could simplify regimen + optimise patient outcome & experience

ALL of....

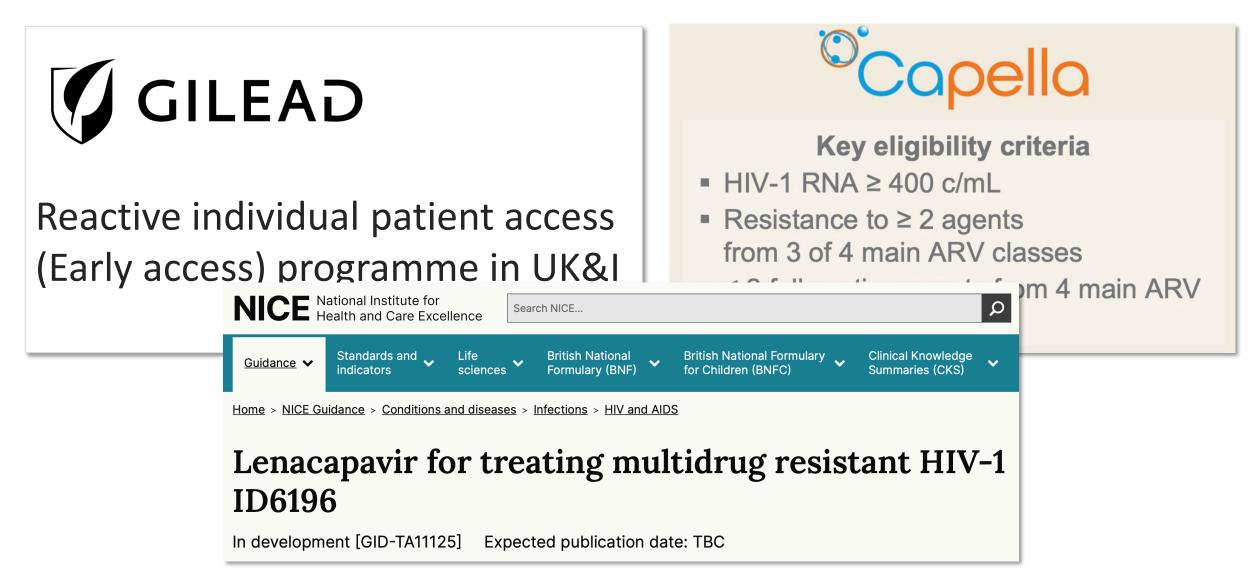
- 1. Discussed/agreed with person + MDT
- 2. Adult with HIV
- 3. FOS added to an OBR
- 4. MDR HIV-1*
- 5. Limited/no therapeutic options
- *limited options: RAMs, tolerability, safety etc.



£822 per 200mg vial 20£95;000ædiyæg dose 800mg fortnightly

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Lenacapavir



N IRELAND

No IBA, LEN or FOS use No off-license CAB/RPV IBA NPP funding: TBC

ROI

No IBA, LEN or FOS use No FOS access yet No off-license CAB/RPV possible if consensus IBA NPP funding: local then seek national reimbursement



SCOTLAND

No IBA, LEN or FOS use No off-license CAB/RPV but possible if MDT agreed IBA NPP funding: national budget?

WALES

No IBA, LEN or FOS use No off-license CAB/RPV possible if best interest IBA NPP funding: IFR to local Health Board

CLOSING THOUGHTS

NICE National Institute for Health and Care Excellence

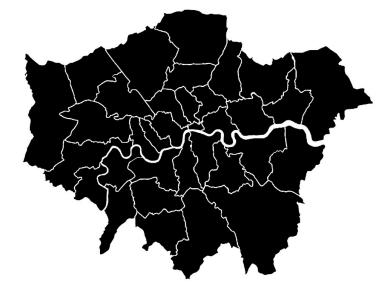
Cabotegravir with rilpivirine would be beneficial for people who find daily tablets challenging or who would prefer an injectable regir

But not so challenging to have a detectable viral load or a history of virological failure?



EQUIY







Acknowledgements

Northern Ireland

Melissa Parry, John White

Scotland

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Republic of Ireland

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Wales Fiona Clark, Jane Nicholls

Thank you for listening



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