

MEDICAL NEEDS FOR ALTERNATIVES TO DAILY ORAL HIV TREATMENTS IN WESTERN EUROPE

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Background

Results

Demographics

- Q Current antiretroviral treatments (ARTs) require daily oral dosing, a challenge for some people living with HIV (PLHIV).1
- 9 Four categories of unmet medical needs associated with daily oral ARTs have been identified in studies/key informant interviews with healthcare professionals (HCPs) and PLHIV:²
 - 1. Medical conditions interfering with daily oral administration
 - 2. Suboptimal adherence
 - 3. Confidentiality concerns (stigma)
 - 4. Quality of life issues with daily oral dosing

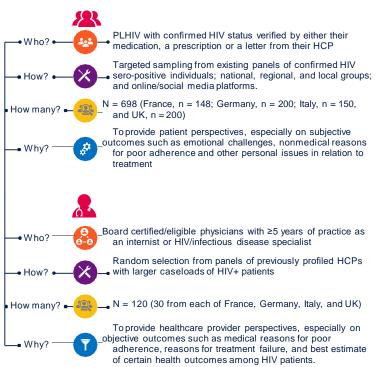
Objective

To quantify these four categories of unmet need to assess potential benefits of alternatives to daily oral ARTs e.g., injectable long-acting regimens.

Methodology

•Data came from the EU Unmet Needs Study.² •Study was conducted from June-August 2019 in Germany, Italy, UK, and France.

- •Two study populations:
- PLHIV (N = 698, of whom 688 were on ART) e [France, 144; Germany, 198; Italy, 150; UK, 196]
- HCPs (N = 120, 30 per country)



HCPs reported managing a mean (SD) of 299 (177) HIV+ patients, of whom 85.7 (15.9)% were currently on ART. Among PLHIV, the mean (SD) age was 40.9 (12.0) years.

Fig 1. Characteristics of the study population (%)

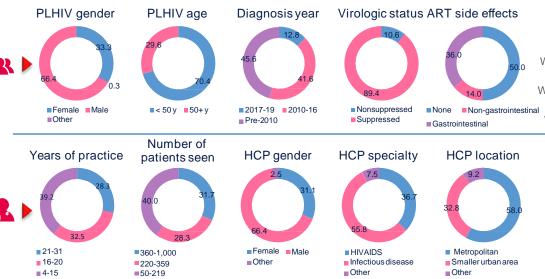
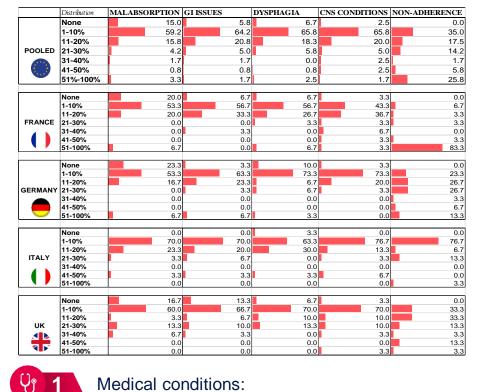
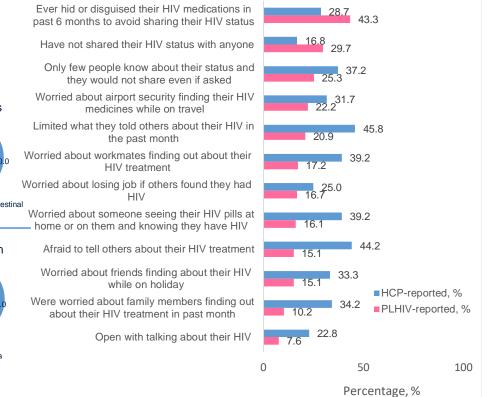


Fig 2. HCP-reported distribution of their patients with different conditions and sub-optimal adherence, overall and by country



Privacy concerns

Fig 6. HCP and PLHIV-reported privacy/stigma challenges with daily oral administration of HIV medicines



Emotional challenges

Fig 7. HCP and PLHIV-reported emotional challenges with daily oral administration of HIV medicines

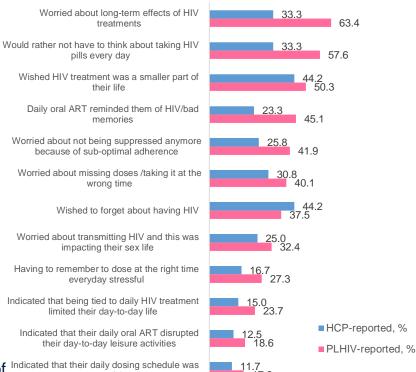


Fig 3. HCP-reported medical challenges to daily oral intake of ART (% of Indicated that their daily dosing schedule was

Measures – 4 categories of unmet medical needs



Medical Conditions Making Daily Oral ART Challenging

- "Malabsorption", e.g., from fistula, abdominal resection, or gastric by-pass "Gastro-intestinal issues interfering with oral administration", e.g., Gastroesophageal reflux disease
- "Difficulty to swallow" e.g. phobia or pill aversion, esophagitis, mechanical obstruction
- 'Neurocognitive conditions", e.g. Parkinson, Alzheimer, mental health issues (e.g. depression, anxiety, dementia, schizophrenia, behavioral/mood or emotional disorder due or not to recreational drug use)
- Drug-drug interactions (changed or modified their ART because of drug-drug,

Suboptimal adherence

Adherence to treatment considered broadly, not only in terms of missed doses but also taking the pills at the right time and under the right conditions without overdosing

- Among HCPs: "... what percentage of your patients on ART do you believe are not perfectly adhering to their regimen?'
- Among PLHIV: 'Missing' to take HIV Medication 'As Prescribed' in the Past Month 'Sometimes', 'Often', or 'Very Often'

3 Privacy and confidentiality challenges

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Similar questions were asked in the HCP and PLHIV surveys regarding: Sharing of their HIV status with others

- Hiding of HIV medication to prevent others from knowing their HIV status
- Concerns regarding inadvertent disclosure of their HIV status
- Perceived stigma

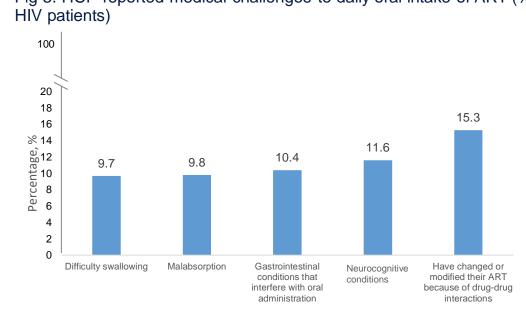
4 **Emotional Challenges**

HCP and PLHIV questionnaires assessed treatment-related challenges including:

- Patients' emotional well-being in coping with their HIV diagnosis
- Worries and concerns about HIV and/or HIV treatment
- Dosing schedule
- Perception of daily oral dosing as daily reminder of HIV Perceived short-, intermediate, and long-term impacts of treatment (e.g., impact on day-to-day life, work, or leisure activities)
- Adherence anxiety (e.g., "I worry about missing doses and not being suppressed anymore", or "I worry about missing doses and transmitting the disease which is impacting my sex life")

Analyses

- For the HCP survey, the unit of analyses was the individual HCP for outcomes involving the physician's perceptions (n = 120), but the physician's best estimate of the patient population as a whole for outcomes involving number and percentage of patients that met a characteristic of interest.
- All results from the PLHIV survey had the individual respondent as the unit of analysis. All analyses were among those on ART (n = 688).
- Descriptive analyses were performed. Data were summarized using means and percentages.



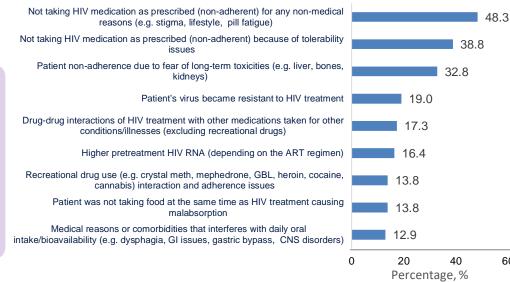
Suboptimal adherence

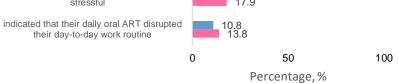
Fig 4. HCP and PLHIV-reported sub-optimal adherence to daily oral administration of HIV medicines



Percentage, %

Fig 5. HCP-reported reasons for lack of virologic suppression among HIV patients currently taking ART (% of HIV patients)





Strengths and Limitations

Strengths: By assessing the complementary perspectives of both providers and PLHIV, this study ensured a more complete coverage of unmet needs. The data are recent and captured a broad range of issues of key importance to HIV care.

Limitations: The self-reported information may be subject to misreporting. Also, the cross-sectional designed afforded only one single snapshot in time. The non-probabilistic sampling and web surveys may further limit generalizability.

Conclusions

- 9 HCPs estimated that approximately 10–15% of their patients were affected by each medical condition identified as interfering with daily oral administration.
- Of all PLHIV surveyed, 23.8% reported suboptimal adherence Q to their antiretroviral therapy.
- 9 HCPs identified 'non-adherence for any non-medical reason' as the primary cause of virologic failure.
- Of surveyed PLHIV, 43.3% reported hiding their medication, 2 while 45.1% saw their tablets as a daily reminder of HIV.
- For some PLHIV, daily oral medication presents challenges and there is a need for alternative modes and frequencies of administration.

References

1 de Los Rios P, Okoli C, Castellanos E, et al. Physical, Emotional, and Psychosocial Challenges Associated with Daily Dosing of HIV Medications and Their Impact on Indicators of Quality of Life: Findings from the Positive Perspectives Study. AIDS Behav. 2020 Oct 7.

2 Clark L, Karki C, Noone J, et al. Quantifying people living with HIV who would benefit from an alternative to daily oral therapy: Perspectives from HIV physicians and people living with HIV. Population Medicine. 2020;2(October):33.

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