







The health and care needs of women living with HIV today: a cross-sectional analysis

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Introduction/Summary

- Specific considerations apply to the care of women living with HIV, starting from the time of diagnosis and adapting to evolving circumstances throughout the management journey (1; 2).
- The aim of this study is to obtain a detailed characterisation of the care needs of a prospective cohort of adult cis women living with HIV.

Methods

- Data from 2000 to 2023 were initially collected retrospectively from the medical records to build an anonymous electronic database that is now updated prospectively.
- Eligibility criteria included new HIV diagnosis or patients transferred from other care centres who result in active follow-up at the Infectious Diseases outpatient service of our clinic (at least one outpatient visit or blood sample recorded from January to October 2023).

Results

- Between January 2000 and October 2023, 220 women living with HIV were taken in care, of which 172 result in active follow-up and 48 lost to follow-up or transferred to other care centres
- Current median age of the study population is 51 years (IQR 43-59.25); the majority are Italian, the main risk factor for acquiring HIV infection is heterosexual route, co-infected HIV/HCV and HIV/HBV patients are respectively 18.6% and 15.7% (Table1).
- 49 (28.5%) patients presented with a CDC stage C(1-2-3) at HIV diagnosis. The therapeutic regimens currently used are combination regimens based on TDF/TAF associated with INI for more than half of the population (88, 51.16%).

Results of 2

- Newly (between 2017 and 2023) diagnosed HIV patients on their first cART regimen are N=28,mainly (42.8%) on a bictegravir-containing 3 drug regimen.
- The reasons for changing previous cART therapy were mostly due to simplification (N=94, 54.65%).
- Patients currently receiving STR are the majority (73.8%).
- At the last viro-immunological determination available from the records, patients with plasmatic viral load below 50 cp/ml are157(91.3%). The median number of CD4 T lymphocytes is 723 (IQR 495.5-973) and median CD4/CD8 ratio 0.95 (IQR 0.6-1.42).

Results of 3

Among the most frequent comorbidities, gynecological diseases that required surgery (mainly uterine fibroadenomatosis) and cervical papillomatosis account for 44.2%; moreover, psychiatric conditions that require medications (from anxiety disorder to substance addiction and suicidal attempt) account for 59% (Table 2).

| Patients in care, in active follow-up diagnosed from 1983 to 2023) | Total N=172 (100%) | Total N=172 (100%) Diagnosed in our centre N=75 | | Transferred from other care centres N=97 (56.4%) | | |
|--|--|--|-------------------------------------|--|-----------|------------|
| lationality | Italian | | N=101 (58.7%) | | | |
| attonanty | Sub-Saharian Africa | | N=38 (22.1%) | | | |
| - | Eastern Europe | | N=13 (7.6%) | | | |
| | Ethiopia and Eritrea | | N=8 (4.6%) | | | |
| | South America | | N=8 (4.6%) | | | |
| The state of the s | North Africa | | N=2 (1.2%) | | | |
| | Middle East and Asia | | N=2 (1.2%) | | | |
| sk factor for acquiring HIV infection | Heterosexual N=128 (74.4%) | IDU N=43 (24.4%) | Congenital N=2 (1.2%) | | | |
| edian age at HIV diagnosis | | 33 (IQR | | | | |
| edian age at last follow-up | | 51 (IQR 43-59) | | | | |
| edian years of disease | 13 (IQR 7-24) | | | | | |
| CV co-infection | N=32 (18.8%)* | | | | | |
| BV co-infection | | N=47 (2 | 7.3%)** | | | |
| inical presentation at HIV diagnosis | CDC clas | Patients | | | | |
| | A1 | | N=22 (12.8%) | | | |
| | A2 | | N=24 (13.9%) | | | |
| | A3 | | N=12 (7%) | | | |
| | B1 | | N=2 (1.2%) | | | |
| | В2 | | N=16 (9.3%) | | | |
| | В3 | | N=30 (17.4%) | | | |
| | C1 | | N=2 (1.2%) | | Σ=28.46 | |
| | C2 | | 14-0 (3.576) | | 2-20.40 | |
| | C3 | | N=41 (23.8%) | | | |
| edian years of therapy | | | 10 (IQR 5-16) | | | |
| edian number of cART regimens | N=3 (IQR 2-5) | | | | | |
| TR therapy | N=127 (73.83%) | | N-04 (400) | | | |
| urrent cART regimen | 2NRTI+PI boosted o unboosted | | N=31 (18%) | | | |
| | 2NRTI+NNRTI | | N=22 (12.8%) | | | |
| | 2NRTI+INI Dual-therapy | | N=88 (51.2%) N=28 (16.3%) | | | |
| | Other (combination therapy in drug-resistant HIV/HTE) | | N=28 (16.3%) N=2 (1.2%) | | | |
| | | | | | | |
| | Off-therapy | | N=1 (0.6%) | | | |
| easons to cART treatment change from evious regimen | No switch (first | t line treatment) | N=21 (12.2%) | | | |
| previous regimen | Simplification (proactive s | Simplification (proactive switch/pill burden reduction) N=94 (54.6%) | | | | |
| | No data available | | N=23 (13.4%) | | | |
| | Other reasons*** | | N=20 (11.4%) | | | |
| | Virological failure | | N=6 (3.5%) | | | |
| | Hyperlipaemia | | N=3 (1.7%) | | | |
| | Gastrointestinal toxicity | | N=3 (1.7%) | | | |
| | Renal toxicity | | N=1 (0.6%) | | | |
| | Neurologic toxicity | | N=1 (0.6%) | | | |
| Viro-immunological data | HIV viral-load at last determination (from 01/23 to 10/23) | | HIV-RNA da 0 a <20 cp/ml N=136 (79% | | 136 (79%) | |
| | | | | RNA da 20 a 50 cp/ml | 10000 | 21 (12.2%) |
| | | | | RNA da 50 a 200 cp/ml | | 2 (1.2%) |
| | | | Median of CD4/CD8 ratio N=12 (6.7%) | | | 12 (6.7%) |
| | Median of absolute number of T CD4+ lymphocytes | | 723 (IQR 495-973) | | | |
| | Median of the percentage of T CD4+ lymphocytes | | 36% | | | |
| | Median of C | 0.95 (IQR 0.6-1.4) | | | | |

| Gynecological | N=76 (44.2%) | Uterine fibroadenomatosis that required surgery Cervical papillomatosis | | |
|---|--|--|--|--|
| Psychiatric | niatric N=59 (34.3%) Psychiatric conditions that require medications: - Anxiety disorder - Insomnia - Drug addiction - Personality disorder - Major depressive disorder - Suicidal attempts | | | |
| Hypertension | N=56 (32.5%) | | | |
| Autoimmune | N=36 (20.9%) | Autoimmune thyroiditis (Hashimoto's thyroiditis, Basedow's disease) → N=2: (58.3%) Multinodular goiter ± thyroid tumor → N=9 (25%) Systemic lupus erythematosus (SLE) Fibromyalgia Scleroderma Celiac disease Connectivitis Lichen scleroatrophycus Ulcerative colitis Crohn's disease | | |
| Cardiological | N=37 (21.5%) | - Valvulopathies - Ischemic heart disease | | |
| Neurological | N=31 (18%) | Polineuropathies Sequelae of ischemic stroke Epilepsy | | |
| Neoplasia (previous or ongoing) | N=28 (16.3%) | - Cervical cancer (including in situ carcinoma) N=12 (42.8%) - Breast cancer N=9 (32%) - Hodgkin's Lymphoma - Uterine cancer - Ovarian cancer - Lung cancer - Thyroid cancer - Myelodisplastic syndrome | | |
| COPD | N=19 (11%) | | | |
| Dyslipidaemia | N=18 (10.5%) | | | |
| Diabetes mellitus type II | N=16 (9.3%) | | | |
| Chronic kidney disease and end- stage renal disease | N=10 (5.8%) | | | |

Conclusions

- In our cohort nearly 1 in 3 women who received a HIV diagnosis presented with an AIDS-defining condition, with most cases occurring in native Italian individuals. From these data emerges the importance of increasing awareness of HIV existence, both in the population and among healthcare workers
- The cART regimens currently mostly used are TDF/TAF-based in association with INSTI.
- The vast majority(>90%)of our cohort achieved HIV-virological suppression and a satisfying immunological recovery.
- The most frequent comorbidities are gynecological and psychiatric: hence, the need to pay further attention to the mental health of our patients (even through selection of tailored cART) and actively fight against stigma.

References

- J. Judy Changet al. Higher Expression of Several Interferon-Stimulated Genes in HIV-1-Infected Females After Adjusting for the Level of Viral Replication, The Journal of Infectious Diseases, Volume 208, Issue 5, 1 September 2013, Pages 830–838
- (2) Antiretroviral therapy Cohort Collaboration. Life expectancy of individuals in combination antiretroviral therapy in high-income countries: a collaborative analysis of 14 cohort studies. Lancet 2008; 372:293-9.