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Survival trends for HIV+ patients receiving first-line ART from the TREAT Asia HIV Observational Database (TAHOD-LITE)

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Background

- The expansion of combination antiretroviral treatment (ART) has substantially increased the survival of individuals diagnosed with HIV infection.
- Over time, there have been changes to treatment and patient management and monitoring.
- Describe time trends in, and risk factors for, overall survival in HIVpositive patients receiving first line ART from the Asia-Pacific region.

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Methods

- TREAT Asia HIV Observational Database Low Intensity TransfEr (TAHOD-LITE).
- · All patients seen at the clinic from a certain time point are recruited.
- To date, over 30 000 HIV-positive adult patients from 8 clinical sites across 7 countries.
- Collect basic demographics, hepatitis serology, ART history and CD4 and viral load results.

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Methods

- Included patients initiating ART with 3 or more drugs between 2003 and 2013, and at least one subsequent visit.
- · Primary endpoint was mortality.
 - Kaplan-Meier curves to compare survival for each country and overall, by time period of ART initiation.
 - Cox proportional hazards to evaluate risk factors for mortality.
- · Secondary endpoints:
 - First line ART regimen
 - CD4 cell count at ART initiation
 - CD4 and viral load testing rates

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Results

- 16546 patients.
- Majority were male (68%), initiated in 2010-13 (46%) and heterosexual contact exposure (82%).
- 880 deaths over 54 532 pys, 1.61 (95% CI: 1.51, 1.72).
- · 63% HIV-related deaths.
- · 40% occurred in first six months from ART initiation.

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Risk factors associated with mortality

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Characteristic	Unadjusted HR (95% Cl)	Adjusted HR (95% Cl)	
Time period 2006-09 2010-13	0.68 (0.57-0.81)* 0.52 (0.42-0.64)*	0.78 (0.65-0.93)* 0.73 (0.59-0.91)*	
Age (yrs) 41-50 ≥51	1.47 (1.19-1.81)* 2.62 (2.09-3.28)*	1.31 (1.06-1.63)** 2.36 (1.86-2.99)*	
Sex Female	0.58 (0.49-0.69)*	0.74 (0.62-0.89)*	
HIV exposure Injecting drug use	2.30 (1.75-3.02)*	2.03 (1.44-2.87)*	
Pre-ART CD4 cell count (cells/µL) 101-200 >200	0.46 (0.38-0.55)* 0.21 (0.16-0.27)*	0.49 (0.41-0.60)* 0.26 (0.20-0.33)*	
*n<0.01- **n<0.05			

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Conclusions

- · HIV-positive patients from Asia-Pacific region have improved survival in more recent time periods.
- Move towards improved first-line ART regimens, earlier ART initiation and greater routine CD4 and viral load monitoring. •
- · Further advancements in treatment and care guidelines are likely to lead to continued improved survival.
 - Major improvement possible through earlier diagnosis of treatment.

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