Impact of providing ART to Medicare ineligibles

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This document summarises a simple methodolgy to calculate the impact of providing anti-retroviral therapy (ART) for free to people living with HIV (PLHIV) in Australia who are medicare ineligible. This analysis uses data from the ATRAS observational study (Petoumenos 2013)

This document is written in dynamic format using R markdown v2 within R studio 0.98.1056 (using R version 3.1.0). Further details are available in the associated R markdown file which also contains the R code to produce all the results when the markdown is run. Code blocks have been supressed in the outputted document. Every implementation of the document reads in the parameters from an assocaited CSV file (written tidily in a simple data format) and reproduces all the results and figures.

The R code for these calculations is available in the associated Rmarkdown file.

### Methodogy

#### Demographics

* summarise split in population
* growth and change in population over time

#### HIV transmission to partners

* summarise calculations for each year

#### Parameter table

* incoporate a full parmater table

**Table 1** - Calculation input parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Description | Value | Range | References |
|  |  | 0.029 |  |
|  |  | 0.029 |  |
|  |  | 0.029 |  |

### Results

**Figure 1** - Change in new infections.

### Discussion

### References

Petoumenos, Kathy. 2013. “THE AUSTRALIAN HIV OBSERVATIONAL DATABASE TEMPORARY RESIDENTS ACCESS STUDY (ATRAS) One Year Follow-up.”