Rapid ART Start In Newly/Previously Diagnosed HIV Treatment Naïve Patients In The City Of Phoenix: Ryan White And Private Clinic Early Outcomes

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Phoenix Metropolitan Area

- 6th largest city in the US
- One of the 48 highest HIV burden counties in the US that account for more than 50% new HIV diagnoses between 2016 to 2017
- Target area for US plan: “Ending the HIV Epidemic”
• The City of Phoenix joined the FTCI in 2014
• Participating agencies include:
  • Community ASOs
  • Arizona Department of Health Services
  • County Department STD clinic
  • Ryan White clinic and Ryan White Programs
  • Community HIV providers
PERCENT OF PEOPLE WITH HIV LIVING IN PHOENIX

2015 HIV Care Continuum

- HIV-Diagnosed: 85%
- Linked to HIV Care: 60%
- Retained in HIV Care: 51%
- On Antiretroviral Therapy: 50%
- Virally Suppressed: 50%
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OVERVIEW

• Goal: improve the second and third “90%-90%-90%”

• 2018: 330 newly diagnosed HIV cases in Phoenix

• Start Dates:
  • Citywide Rapid Start started in September 2018
  • The 2 largest HIV clinics in Phoenix started internal Rapid Start protocols in January 2018

• Results presented here are from these two clinics
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METHODS

- Convenience sample of treatment naïve HIV patients (newly or previously HIV diagnosed) who were newly linked to care at:
  - County hospital Ryan White (RW) funded clinic (McDowell)
  - Private clinic (Spectrum Medical)
- Patients who had no contraindications and accepted same day ART
- Rapid ART starts from 1/2018-12/2018 who had subsequent HIV RNA
- $N = 142$ patients (116 RW/26 private, respectively)
- Compared to RW historic data for each clinic
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## PATIENT DEMOGRAPHICS

<table>
<thead>
<tr>
<th></th>
<th>RW historic (n=41)</th>
<th>RW Rapid Start (n=116)</th>
<th>Private Clinic (n=26)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median age (years)</td>
<td>43</td>
<td>30</td>
<td>31</td>
</tr>
<tr>
<td>Gender (% male)</td>
<td>76%</td>
<td>92%</td>
<td>92%</td>
</tr>
<tr>
<td>MSM (%)</td>
<td>48%</td>
<td>70%</td>
<td>76%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>-</td>
<td>46%</td>
<td>N/A</td>
</tr>
<tr>
<td>Illicit substance use</td>
<td>-</td>
<td>55%</td>
<td>4%</td>
</tr>
<tr>
<td>Mental health issue</td>
<td>-</td>
<td>38%</td>
<td>4%</td>
</tr>
<tr>
<td>Median baseline CD4</td>
<td>282</td>
<td>389</td>
<td>388</td>
</tr>
<tr>
<td>(cells/mm³)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median baseline HV RNA</td>
<td>115,231</td>
<td>46,234</td>
<td>79,250</td>
</tr>
<tr>
<td>(copies/mm³)</td>
<td></td>
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</tr>
</tbody>
</table>

Median days from diagnosis to ART: 14 / 2 (RW / private) respectively.
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RESULTS: Time from diagnosis to viral suppression

<table>
<thead>
<tr>
<th></th>
<th>RW historic</th>
<th>RW Rapid Start</th>
<th>Private Rapid Start</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-value</td>
<td></td>
<td>0.016</td>
<td></td>
</tr>
<tr>
<td>Time in days</td>
<td>93</td>
<td>56</td>
<td>42</td>
</tr>
</tbody>
</table>
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RESULTS: Time from ART to viral suppression

<table>
<thead>
<tr>
<th></th>
<th>Days</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>RW historic</td>
<td>69</td>
<td>0.001</td>
</tr>
<tr>
<td>RW Rapid Start</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>Private Rapid Start</td>
<td>32</td>
<td></td>
</tr>
</tbody>
</table>
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Results: Retention in care

<table>
<thead>
<tr>
<th></th>
<th>RW Rapid Start (n=116)</th>
<th>Private Clinic (n=26)</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 3 months</td>
<td>87%</td>
<td>100%</td>
</tr>
<tr>
<td>At 6 months</td>
<td>77%</td>
<td>100%</td>
</tr>
</tbody>
</table>
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CONCLUSIONS

• Rapid Start of ART can significantly decrease the time from diagnosis to viral suppression

• Long-term clinical outcome and community impact data is still needed

• This approach can be implemented in any clinical setting

• To result in significant public health impact, a community-wide program is necessary, which requires dedicated commitment, and coordinated collaborative mobilization of resources
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RESOURCE BOOKLET
STATE OF ARIZONA RAPID TREATMENT

Achieving undetectable in a few simple moves.
Lograr lo indetectable en unos pocos y simples pasos.

Step 1

RELAX. BREATHE. YOU’VE GOT THIS

Take some time to think – and unwind. The hard part was getting tested. Your next steps will be much easier. Know that everyone responds differently to the results – also know that you have the power to control your situation.
Step 2
WE’RE HERE FOR YOU
Always remember, you’re not alone.
We have answers to questions – we know you have some.
We can help with medical coverage, transportation, support and so much more.

Step 3
REACH OUT FOR TREATMENT
Get to your doctor right away.
Delaying care adversely affects your health.
Faster treatment will lead to a healthier, longer life.
Step 4
EMBRACE YOUR PROVIDER RELATIONSHIP
Developing an open and honest relationship with your medical provider is essential. Together, you can make best decisions about the right treatment options for you.

Step 5
THE GOAL: UNDETECTABLE
Yes! The amount of HIV in your body is so small it has little to no impact on your health. To become undetectable, it’s critical that you take your meds every day, as prescribed.
Step 6

UNDETECTABLE = UNTRANSMITTABLE

After your first undetectable test result, continue to take your meds and regularly visit your doctor.

Staying undetectable puts you at zero risk of passing HIV on to your sexual partners.
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• The City of Phoenix (Councilwoman Laura Pastor)