Current Reality: The San Francisco Experience

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Disclosures

• No disclosures to make

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AIDS WALK SAN FRANCISCO
July 16, 2017

Tideswell at UCSF
Overview

Delivering Research Progress to Patients:

• Background on SF context & work leading to development of Golden Compass Program at Ward 86 clinic

• Overview of the Golden Compass program
  – Highlights and Challenges
Models of HIV Care

Opportunistic infection era
- Crisis management
- Treatment of opportunistic infections
- Palliative care
- Primary care

Antiretroviral era
- Focus on viral pathogenesis
- Specialization and medicalization of HIV care ("HIV specialist")

Chronic disease era
- HIV disease management
- Co-morbidities and aging
- Primary care


AZT  Vancouver Conference  SMART Study

## PLWH in SF 2012-2016

<table>
<thead>
<tr>
<th>Gender</th>
<th>2012 Number (%)</th>
<th>2013 Number (%)</th>
<th>2014 Number (%)</th>
<th>2015 Number (%)</th>
<th>2016 Number (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>14,438 (92)</td>
<td>14,576 (92)</td>
<td>14,657 (92)</td>
<td>14,660 (92)</td>
<td>14,718 (92)</td>
</tr>
<tr>
<td>Female</td>
<td>919 (6)</td>
<td>912 (6)</td>
<td>905 (6)</td>
<td>904 (6)</td>
<td>910 (6)</td>
</tr>
<tr>
<td>Trans Female¹</td>
<td>386 (2)</td>
<td>386 (2)</td>
<td>382 (2)</td>
<td>388 (2)</td>
<td>382 (2)</td>
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<tr>
<td>Race/Ethnicity</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>9,538 (61)</td>
<td>9,567 (60)</td>
<td>9,563 (60)</td>
<td>9,526 (60)</td>
<td>9,517 (59)</td>
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<tr>
<td>African American</td>
<td>1,979 (13)</td>
<td>1,980 (12)</td>
<td>1,959 (12)</td>
<td>1,948 (12)</td>
<td>1,938 (12)</td>
</tr>
<tr>
<td>Latino</td>
<td>2,857 (18)</td>
<td>2,916 (18)</td>
<td>2,968 (19)</td>
<td>3,006 (19)</td>
<td>3,050 (19)</td>
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<tr>
<td>Asian/Pacific Islander</td>
<td>820 (5)</td>
<td>862 (5)</td>
<td>900 (6)</td>
<td>923 (6)</td>
<td>956 (6)</td>
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<tr>
<td>Native American</td>
<td>70 (&lt;1)</td>
<td>70 (&lt;1)</td>
<td>71 (&lt;1)</td>
<td>71 (&lt;1)</td>
<td>71 (&lt;1)</td>
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<tr>
<td>Multi-race</td>
<td>473 (3)</td>
<td>471 (3)</td>
<td>475 (3)</td>
<td>468 (3)</td>
<td>468 (3)</td>
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<tr>
<td>Unknown</td>
<td>6 (&lt;1)</td>
<td>8 (&lt;1)</td>
<td>8 (&lt;1)</td>
<td>10 (&lt;1)</td>
<td>10 (&lt;1)</td>
</tr>
<tr>
<td>Age in Years (at end of each year)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>0 - 12</td>
<td>3 (&lt;1)</td>
<td>3 (&lt;1)</td>
<td>3 (&lt;1)</td>
<td>3 (&lt;1)</td>
<td>2 (&lt;1)</td>
</tr>
<tr>
<td>13 - 17</td>
<td>9 (&lt;1)</td>
<td>4 (&lt;1)</td>
<td>3 (&lt;1)</td>
<td>5 (&lt;1)</td>
<td>3 (&lt;1)</td>
</tr>
<tr>
<td>18 - 24</td>
<td>163 (1)</td>
<td>158 (1)</td>
<td>136 (1)</td>
<td>131 (1)</td>
<td>112 (1)</td>
</tr>
<tr>
<td>25 - 29</td>
<td>482 (3)</td>
<td>487 (3)</td>
<td>470 (3)</td>
<td>440 (3)</td>
<td>418 (3)</td>
</tr>
<tr>
<td>30 - 39</td>
<td>1,944 (12)</td>
<td>1,901 (12)</td>
<td>1,872 (12)</td>
<td>1,815 (11)</td>
<td>1,764 (11)</td>
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<tr>
<td>40 - 49</td>
<td>5,129 (33)</td>
<td>4,761 (30)</td>
<td>4,347 (27)</td>
<td>3,056 (25)</td>
<td>3,657 (23)</td>
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<tr>
<td>50 - 59</td>
<td>5,320 (34)</td>
<td>5,555 (35)</td>
<td>5,758 (36)</td>
<td>5,854 (37)</td>
<td>5,910 (37)</td>
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<tr>
<td>60 - 69</td>
<td>2,285 (15)</td>
<td>2,538 (16)</td>
<td>2,783 (17)</td>
<td>3,069 (19)</td>
<td>3,324 (21)</td>
</tr>
<tr>
<td>70+</td>
<td>408 (3)</td>
<td>467 (3)</td>
<td>572 (4)</td>
<td>679 (4)</td>
<td>820 (5)</td>
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<tr>
<td>Transmission Category</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>MSM</td>
<td>11,513 (73)</td>
<td>11,666 (73)</td>
<td>11,754 (74)</td>
<td>11,804 (74)</td>
<td>11,874 (74)</td>
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<tr>
<td>PWID</td>
<td>990 (6)</td>
<td>962 (6)</td>
<td>943 (6)</td>
<td>916 (6)</td>
<td>913 (6)</td>
</tr>
<tr>
<td>MSM-PWID</td>
<td>2,453 (16)</td>
<td>2,443 (15)</td>
<td>2,432 (15)</td>
<td>2,397 (15)</td>
<td>2,370 (15)</td>
</tr>
<tr>
<td>Heterosexual</td>
<td>533 (3)</td>
<td>544 (3)</td>
<td>544 (3)</td>
<td>556 (3)</td>
<td>564 (4)</td>
</tr>
<tr>
<td>Transfusion/Hemophilia</td>
<td>25 (&lt;1)</td>
<td>25 (&lt;1)</td>
<td>25 (&lt;1)</td>
<td>25 (&lt;1)</td>
<td>25 (&lt;1)</td>
</tr>
<tr>
<td>Other/Unidentified</td>
<td>229 (1)</td>
<td>234 (1)</td>
<td>246 (2)</td>
<td>254 (2)</td>
<td>264 (2)</td>
</tr>
<tr>
<td>Total²</td>
<td>15,743</td>
<td>15,874</td>
<td>15,944</td>
<td>15,952</td>
<td>16,010</td>
</tr>
</tbody>
</table>
Ward 86

- Part of San Francisco Health Network Clinics (safety net system)
- Ryan White funding recipient
- 2600 publically insured and uninsured PLWH
  - 1500 are age 50 or older
Development of designated HIV & Aging care program in SF

1) Community needs assessment
2) Literature review
3) Pilot program (Silver Project)
4) Focus groups with patients and providers
Community Perspective

2010 City Needs Assessment

2013 Long term survivors community forums
Research in San Francisco

- Frailty: 9.0%
- Hearing Impairment: 14.2%
- Mobility: 21.9%
- Difficulty ≥1 ADL: 25.2%
- Incontinence: 25.2%
- Falls: 25.8%
- Visual Impairment: 34.8%
- Depression: 40.0%
- Cognitive Impairment: 46.5%
- Difficulty ≥1 IADL: 46.5%
- Pre-frailty: 56.1%

Greene JAIDS 2015
Silver Project: 2012-2014

Silver Project Flow

Silver Project Visit

Clinical Visit Screening Assessments → Collect Data Using Electronic Tool & EHR → Relay Data to Primary Care Provider - Multidisciplinary Team → Act on Data - Patient Referrals - Interventions

Screening Assessments

Physical: Falls, Gait Speed, ADLs & IADLs, VACS index
Mental & Cognitive Health: Depression, Anxiety, PTSD, Cognitive Impairment
Social: Physical & Perceived Social Support, Loneliness
Behavioral: Antiretroviral Adherence, Health Related Quality of Life

Follow Up

Team
Geriatrician, Psychiatrist, Silver Project MD/NP, Pharmacist, Dietitian, Social Worker, Case Manager, Primary Care Provider

University of California, San Francisco Division of Geriatrics
Greene M & John M. JAIDS 2016
# Findings from Geriatric Assessments

<table>
<thead>
<tr>
<th></th>
<th>N (%) (total N=359)</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥1 Fall in past year</td>
<td>145 (40.4)</td>
</tr>
<tr>
<td>Dependent in ≥1 ADL</td>
<td>43 (12.2)</td>
</tr>
<tr>
<td>Dependent in ≥1 IADL</td>
<td>136 (38.9)</td>
</tr>
<tr>
<td>At least Mild Sx Loneliness</td>
<td>207 (57.9)</td>
</tr>
<tr>
<td>MOCA &lt; 26</td>
<td>121 (33.7)</td>
</tr>
<tr>
<td>At least mild Depressive Sx</td>
<td>198 (55.1)</td>
</tr>
</tbody>
</table>
Medication Review: Polypharmacy

• 248 patients underwent medication review with pharmacist
• Average 14 medications
  – 11 non-HIV meds
  – 16% taking more than 20 meds
• 63% had at least one potentially inappropriate medication
• 9% had a contraindicated drug-drug interaction
Patient and Provider Perspectives on Assessments

<table>
<thead>
<tr>
<th>Patients</th>
<th>Providers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depression</td>
<td>Falls</td>
</tr>
<tr>
<td>HIV Med Adherence</td>
<td>Memory</td>
</tr>
<tr>
<td>Social Support</td>
<td>Depression</td>
</tr>
<tr>
<td>Falls</td>
<td>Function</td>
</tr>
<tr>
<td>Memory</td>
<td>Loneliness</td>
</tr>
<tr>
<td>Function</td>
<td>HIV Med Adherence</td>
</tr>
<tr>
<td>Anxiety</td>
<td>Social Support</td>
</tr>
<tr>
<td>Gait speed</td>
<td>Gait speed</td>
</tr>
<tr>
<td>Chair Stands</td>
<td>Substance Use</td>
</tr>
<tr>
<td>Loneliness</td>
<td>Chair Stands</td>
</tr>
</tbody>
</table>

Greene M, paper in submission
Focus Groups

• 2 Provider groups, 4 Patient Groups- MSM, Women, IDU, 70+ & outside

• Common themes: Need help navigating system, HIV and aging resources

• Name came from focus groups
Themes from Focus Groups

Northern Point: Heart and Mind
Themes: Provider concerns about cardiovascular disease; patients’ desire for self-management of other co-morbid conditions, dual concerns of mental health and cognitive changes

Western Point: Dental, Hearing, Vision
Themes: Need to address aging concerns, link to ancillary services

Eastern Point: Bones and Strength
Themes: aging concerns of importance in HIV: falls, frailty, bone density, neuropathy, need for access to low cost exercise options

Southern Point: Network and Navigation
Themes: loneliness, isolation, wanting to form new connections with other older adults with HIV, navigating healthcare system

Greene M, paper in submission
Golden Compass Program

NORTH:
• HIV Cardiologist on site in clinic
• Brain Health classes
• Cognitive evals & Resources

EAST
• Exercise Classes
• Proposal for DEXA
• Fall & Balance evaluations
Golden Compass Program

WEST:
• Ensure age appropriate screening
• Link to low cost eyeglasses, hearing aids, dental

SOUTH:
• Support groups
• Partnerships with community agencies
• Social work services
And More…

• Polypharmacy

• Advanced Care Planning

• Staff and provider knowledge of Aging Issues
Current Operations

Friday afternoon Geriatric HIV Clinic:

• Meet with clinic pharmacist

• MA does hearing/vision/dental screen, MOCA, mood symptoms

• Geriatrics consult (general and focus on specific concerns)
63 new referrals:
- Age 49-81
- 90% male
- 46% White, 20% Black, 13% Latino

- Cognitive (MOCA)
- Mental Health
- Functional status
- Supports
- Sensory impairment
- Falls, incontinence
Snapshot: Reasons Referrals

• >50% of providers have referred
• General Assessment
• Cognition
• Falls
• Polypharmacy
New SF General clinic treats older HIV patients

By Erin Allday | February 2, 2017 | Updated: February 3, 2017 9:07am
Challenges in the 1st 9 months

- Sustainable Funding in Uncertain Times
- System challenges (Insurance)
- Implementation challenges
- Electronic Medical Record
General Challenges

• Whom do you target?
  - We have built in auto (opt out) referrals (>70 years, falls)

• One time consult? (role consultant)
  – Many want to come back for follow-up, some providers want co-management

• Demonstrating value (& general perception geriatrics)
General Challenges

• Not just assessment - need to intervene

• Still a need for more evidence base; Simple screening tools for cognitive issues

• Resources in different settings
  – Primary care, geriatrics, HIV specialty
Summary

• Input from patients, providers, community informed development Golden Compass Program

• Ideal model still needs to be determined; and will likely have to be adapted based on local resources
Acknowledgments

Monica Gandhi, MD, MPH, Medical Director of Ward 86 HIV Clinic, UCSF
Diane Havlir, MD, Chief, Division of HIV, ID and Global Medicine
San Francisco Epidemiology

Figure 1.2 New HIV diagnoses, deaths, and prevalence, 2006-2016, San Francisco

The HIV Epidemiology Annual Report 2016 (released 9/15/17) is available at: https://www.sfdph.org/dph/