



Ambulatory medical care services standards and performance indicators

Framing statement:

These standards presume that ALL the services indicated below are documented. The population included is described only once in indicators, the numerators and denominators follow from the indicators.

Standard	Indicator	Numerator	Denominator	Exclusions	Bench-mark
Medical Visits Definition: visits with a provider with prescribing privileges (i.e., MD, PA, NP, [DO]) in an HIV care setting	Percentage of HIV-infected clients who had two or more medical visits in the measurement year.	Number of clients who had two medical visits two or more times at least 3 months apart during the measurement year. *	Number of clients who had at least one medical visit in the measurement year.	Patients newly enrolled in care during last nine months of the year. Patients with documented transfer of care. Patients who have died during the measurement year.	None
HAART	Percentage of clients with AIDS who are prescribed HAART.	Number of clients who were prescribed a HAART regimen within the measurement year.	Clients who: 1) have a diagnosis of AIDS (history of a CD4 T-cell count below 200 cells/mm or other AIDS-defining condition; and 2) had at least one medical visit with a provider with prescribing privileges at least once in the measurement year.	Patients newly enrolled in care during the last three months of the measurement year.	IHI Goal: 90% HIVQU-AL 2006 median: 100%
CD4 T-Cell Count	Percentage of clients with HIV infection who had 2 or more CD4 T-cell counts performed in the measurement year.	Number of clients who had 2 or more CD4 T-cell counts performed at least 3 months apart during the measurement years.	Clients who had a medical visit with a provider with prescribing privileges at least once in the measurement year.	Patients newly enrolled in care during the last six months of the year.	IHI Goal: 90% HIVQU-AL 2006 median:

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Screening: Syphilis	Percentage of adult clients with HIV infection who had a test for syphilis performed within the measurement year.	Number of clients who had a serologic test for syphilis performed at least once in the measurement year.	Number of clients who: 1) were at least 18 years old in the measurement year, or had a history of sexual activity < 18 years ; and 2) had had a medical visit with a provider with prescribing privileges at least once in the measurement year.	Clients who were less than 18 years old in the measurement year.	62.5% IHI Goal: 90% HIVQU- AL 2006 mean: 80%
Screening: Chlamydia	Percentage of clients with HIV infection at risk for sexually transmitted infections (STI) who had a test for chlamydia within the measurement year.	Number of clients who had a test for chlamydia	Number of clients who: 1) newly enrolled in care; 2) sexually active; or 3) had a STI within the last 12 months, 4) and had a medical visit with a provider with prescribing privileges at least once in the measurement year	Patients who were < 18 years old and denied a history of sexual activity	None
Screening: Gonorrhea	Percentage of clients with HIV infection at risk for sexually transmitted infections (STI) who had a test for gonorrhea within the measurement year.	Number of clients who had a test for gonorrhea	Number of clients who were either: 1) newly enrolled in care; 2) sexually active; or 3) had a STI within the last 12 months, and had a medical visit with a provider with prescribing privileges at least once in the measurement year	Patients who were ≤ 18 years old and denied a history of sexual activity.	None

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Screening: Lipid	Percentage of clients with HIV infection on HAART who had a fasting lipid panel** during the measurement year.	Number of clients who were 1) prescribed HAART, and 2) had a fasting lipid panel in the measurement year	Number of clients who are on HAART and who had a medical visit with a provider with prescribing privileges at least once in the measurement year	None	HIVQU-AL 2006 mean: 84.7%
Screening: Tuberculosis	Percentage of clients with HIV infection who received testing with results documented for latent tuberculosis infection (LTBI) since HIV diagnosis.	Number of clients who received testing with results documented for LTBI with any approved test (tuberculin skin test [TST] or interferon gamma release assay [IGRA]) since HIV diagnosis	Number of clients who: 1) do not have a history of previous documented culture-positive TB disease or previous documented positive TST or IGRA and 2) had a medical visit with a provider with prescribing privileges at least once in the measurement year	None	HIVQU-AL 2006 mean: 56.2%
Screening: Hepatitis C	Percentage of clients for whom Hepatitis C (HCV) screening was performed at least once since the diagnosis of HIV infection.	Number of clients who have documented HCV status in their chart.	Number of HIV-infected clients who had a medical visit with a provider with prescribing privileges at least once in the measurement year.	None	IHI Goal: 95% HIVQU-AL 2006 mean: 90.9%
Screening: Substance use A substance use screen includes documentation of past and current substance use and treatment in the HIV primary care record. Screening can be provided by any member of the multidisciplinary primary care team.	Percentage of new clients with HIV infection who had been screened for substance use (alcohol and drugs) in the measurement year	Number of new clients who were screened for substance use within the measurement year.	Number of clients who: 1) were new during the measurement year; and 2) had a medical visit with a provider with prescribing privileges at least once in the measurement year.		IHI Goal: 90% HIVQU-AL 2007 mean: 80.6%

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<p>Screening: Mental health</p> <p>Includes the following components for an annual Mental Health Screening for people with HIV: Cognitive function assessment, including mental status; Depression screening; Anxiety screening; Sleeping habits assessment; Appetite assessment; Domestic violence screening; Post Traumatic Stress Disorder screening; Psychiatric history (optional); Psychosocial assessment (optional).</p>	Percentage of new clients with HIV infection who had been screened for mental health issues.	Number of new HIV-infected clients who received a mental health screening.	Number of clients who: 1) were new during the measurement year; and 2) had a medical visit with a provider with prescribing privileges at least once in the measurement year.	None	HIV EVAL 2007 mean: 42%
<p>Screening: Toxoplasma</p>	Percentage of clients with HIV infection for whom Toxoplasma screening was performed at least once since the diagnosis of HIV infection	Number of clients who have documented Toxoplasma status in health record	Number of clients who had a medical visit with a provider with prescribing privileges at least once in the measurement period	Patients with known toxoplasmic disease, e.g. <i>Toxoplasma gondii</i> encephalitis	None
<p>Screening: Cervical Cancer</p>	Percentage of women with HIV infection who had a Pap screening in the measurement year.	Number of female clients who had Pap screen results documented in the measurement year.	Number of female clients who had Pap screen results documented in the measurement year	Patients ≥ 18 years old, denied history of sexual activity 2) Clients who have had	IHI Goal: 95% HIVQU-AL

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				hysterectomy for non-dysplasia/non-malignant indications in the measurement year.	2006 mean: 70.8%
Adherence, Assessment and Counseling Assessment of adherence includes: 1) patient reports of adherence by: a) quantifiable scales, e.g. missed 3 out of 10 doses; b) qualitative scale, e.g. Likert scale; 2) quantification such as pharmacy dispensing records, pill counts or direct observation therapy. Adherence counseling can be provided by any member of the multidisciplinary primary care team.	Percentage of clients with HIV infection on ARVs who were assessed and counseled for adherence two or more times in the measurement year.	Number of HIV-infected clients, as part of their primary care, who were assessed and counseled for adherence two or more times at least three months apart.	Number of HIV-infected clients on ARV therapy who had a medical visit with a provider with prescribing privileges at least once in the measurement year.	1) Patients newly enrolled in care during last six months of the year 2) Patients who initiated ARV therapy during last six months of the year	IHI Goal: 90% HIVQU-AL 2006 mean: 55.7%
Risk reduction Counseling HIV risk counseling includes assessment of risk, counseling and as necessary, referrals. Counseling occurs in the context of comprehensive medical care and can be provided by any member of the multidisciplinary primary care team	Percentage of clients with HIV infection who received risk counseling within the measurement year.	Number of clients, as part of their primary care, who received HIV risk counseling	Number clients who had a medical visit with a provider with prescribing privileges at least once in the measurement year	None	None

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<p>Tobacco Cessation Counseling</p> <p>For the purposes of this measure, tobacco cessation counseling refers to counseling provided by the primary care team that emphasizes the need to avoid tobacco intake due to the impact on the liver.</p>	Percentage of clients with HIV infection who received tobacco cessation counseling within the measurement year.	Number of clients who received tobacco cessation counseling.	Number of clients who: 1) used tobacco products within the measurement year; and 2) had a medical visit with a provider with prescribing privileges at least once in the measurement year.	Patients who deny tobacco use throughout the measurement year.	HIVQU-AL 2007 mean: 83.8%
<p>Hepatitis/HIV Alcohol Counseling</p> <p>For the purposes of this measure, alcohol counseling refers to counseling provided by the primary care team that emphasizes the need to avoid or limit alcohol intake due to the impact on the liver.</p>	Percentage of clients with HIV or HBV infection or HCV infection who received alcohol counseling within the measurement year.	Number of clients who received alcohol counseling.	Number of clients who: 1) were co-infected with HBV or HCV; and 2) had a medical visit with a provider with prescribing privileges at least once in the measurement year.	None	None
<p>Oral examination</p>	Percentage of clients with HIV infection who received an oral exam by a dentist at least once during the measurement year.	Number of clients who had an oral exam by a dentist during the measurement year, based on patient self report or other documentation	Number of HIV-infected clients who had a medical visit with a provider with prescribing privileges at least once in the measurement year.	None	IHI Goal: 75% HIVQU-AL 2006 mean: 39.4%
<p>Hepatitis A screening***</p>	Percentage of clients with HIV infection who had been screened for Hepatitis A virus infection status in the measurement year.	Number of clients who have documented HAV status in their chart.	Number of HIV-infected clients who had a medical visit with a provider with prescribing privileges at least once in the measurement year.	None	
<p>Hepatitis A vaccination***</p>	Percentage of clients with HIV infection who had completed the vaccination series for	Number of clients who have documentation of having ever completed the vaccination series	Clients who: 1) ever had documented susceptibility to Hepatitis A virus or had	Clients with documentation of immunity to	None

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	Hepatitis A in the measurement year.	for Hepatitis A.	unknown Hepatitis A virus status; 2) were ever recognized by the provider and dated records as evidence of vaccination; and 3) had a medical visit with a provider with prescribing privileges at least once in the measurement year.	Hepatitis A.	
Hepatitis B screening	Percentage of clients with HIV infection who had been screened for Hepatitis B virus infection status in the measurement year.	Number of HIV-infected clients who have documented Hepatitis B infection status in the health record	Number of HIV-infected clients who had a medical visit with a provider with prescribing privileges (i.e., MD, PA, NP, [DO]) at least once in the measurement year.	Patients with documentation of complete Hepatitis B vaccination	None
Hepatitis B vaccination	Percentage of clients with HIV infection who had completed the vaccination series for Hepatitis B in the measurement year.	Number of clients who have documentation of having ever completed the vaccination series for Hepatitis B.	Number of clients who had a medical visit with a provider with prescribing privileges (i.e., MD, PA, NP, [DO]) at least once in the measurement year.	1) Patients newly enrolled in care during the measurement year 2) Patients with evidence of current HBV infection (Hep B Surface Antigen, Hep B e Antigen, Hep B e Antibody or Hep B DNA) 3) Patients with evidence of past HBV infection with immunity (Hep B Surface	HAB cites 2 studies with completion rates of 17% and 45%.

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Influenza vaccination	Percentage of clients with HIV infection who have received influenza vaccination within the measurement period.	Number of clients who received influenza vaccination within this timeframe	Number of clients who had a medical visit with a provider with prescribing privileges (i.e., MD, PA, NP, [DO]) at least once in the measurement period.	Antibody without evidence of vaccination) 1) Patients allergic to vaccine components 2) Patients who refused influenza vaccine	None
MAC Prophylaxis	Percentage of clients with HIV infection and a CD4 T-cell count < 50 cells/mm ³ who were prescribed MAC prophylaxis in the measurement year.	Number of clients with CD4 counts <50 cells/mm ³ who were prescribed MAC prophylaxis in the measurement year.	Number of clients who in the measurement year: 1) had had a medical visit with a provider with prescribing privileges at least once in the measurement year; and 2) had a CD4 T-cell count below 50 cells/mm ³ .	Patients who have disseminated MAC	HIVQU-AL 2007 mean: 84.6%
PCP Prophylaxis	Percentage of clients with HIV infection and a CD4 T-cell count below 200 cells/mm ³ who were prescribed PCP prophylaxis in the measurement year.	Number of clients with CD4 counts below 200 cells/mm ³ who were prescribed PCP prophylaxis in the measurement year.	Number of clients who in the measurement year: 1) had a medical visit with a provider with prescribing privileges at least once in the measurement year; and 2) had a CD4 T-cell count below 200 cells/mm ³ .	1) Patients with CD4 T-cell counts below 200 cells/mm ³ repeated within 3 months rose above 200 cells/mm ³ .; 2) Patients newly enrolled in care during last three months of the measurement year.	IHI Goal: 95% HIVQU-AL 2006 median: 94.4%
ARV[†] Therapy for Pregnant	Percentage of pregnant women with HIV infection who	Number of pregnant women who were prescribed antiretroviral	1) Patients whose pregnancy is terminated;	None	

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Women	are prescribed antiretroviral therapy.	therapy during the 2 nd and 3 rd trimester.	2) Pregnant patients who are in the 1 st trimester and newly enrolled in care during last three months of the measurement year.		
Pneumococcal Vaccination	Percentage of clients with HIV infection who ever received pneumococcal vaccine	Number of clients who ever received a pneumococcal vaccine	Number of clients who had a medical visit with a provider with prescribing privileges at least once in the measurement year	Patients with CD4 counts < 200 cells/mm ³ within the measurement year	HIVQU-AL 2007 mean: 80.9%
Viral Load test***	Percentage of clients with HIV infection who had 2 or more viral load tests performed in the measurement year.	Number of HIV-infected clients who had 2 or more viral load tests performed at least 3 months apart during the measurement years.	Number of HIV-infected clients who had a medical visit with a provider with prescribing privileges (i.e., MD, PA, NP, [DO]) at least once in the measurement year.	Patients newly enrolled in care during the last six months of the year.	

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