

Supplementary Tables

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Supplementary Table S1: List of all AIDS-defining conditions and non-AIDS-defining HIV indicator conditions.

AIDS-defining conditions	Non-AIDS-defining HIV indicator conditions
<i>Atypical disseminated leishmaniasis</i>	Anal cancer/dysplasia
<i>Candidiasis, bronchial/tracheal/lungs</i>	Candidaemia
<i>Candidiasis, oesophageal</i>	Candidiasis
<i>Cerebral toxoplasmosis</i>	Castleman's disease
<i>Cervical cancer</i>	Cerebral abscess
<i>Coccidioidomycosis, disseminated/extrapulmonary</i>	Cervical dysplasia
<i>Cryptococcosis, extrapulmonary</i>	Community-acquired pneumonia
<i>Cryptosporidiosis diarrhoea, >1 month</i>	Guillain–Barré syndrome
<i>Cytomegalovirus retinitis</i>	Hepatitis A
<i>Cytomegalovirus, other (except liver, spleen, glands)</i>	Hepatitis B (acute or chronic)
<i>Herpes simplex, ulcer(s) >1 month/bronchitis/pneumonitis</i>	Hepatitis C (acute or chronic)
<i>Histoplasmosis, disseminated/extrapulmonary</i>	Herpes zoster
<i>Isosporiasis, >1 month</i>	Idiopathic/thrombotic thrombocytopenic purpura
<i>Kaposi's sarcoma</i>	Infective retinal diseases, including herpes viruses and toxoplasma
<i>Mycobacterium avium complex or Mycobacterium kansasii, disseminated or extrapulmonary</i>	Invasive pneumococcal disease
<i>Mycobacterium tuberculosis, pulmonary or extrapulmonary</i>	Lymphocytic meningitis
<i>Mycobacterium, other species or unidentified species, disseminated or extrapulmonary</i>	Malignant lymphoma/Hodgkin's lymphoma
<i>Non-Hodgkin lymphoma</i>	Mononeuritis
<i>Penicilliosis, disseminated</i>	Mononucleosis-like illness
<i>Pneumocystis carinii pneumonia</i>	Multiple sclerosis-like disease
<i>Pneumonia, recurrent (2 or more episodes in 12 months)</i>	Oral hairy leukoplakia
<i>Primary cerebral lymphoma</i>	Peripheral neuropathy
<i>Progressive multifocal leucoencephalopathy</i>	Pregnancy (implications for the unborn child)
<i>Reactivation of American trypanosomiasis (meningoencephalitis or myocarditis)</i>	Primary lung cancer

<i>Salmonella septicaemia, recurrent</i>	Primary space occupying lesion of the brain
	Seborrheic dermatitis/exanthema
	Severe or atypical psoriasis.
	Sexually transmitted infections
	Subcortical dementia
	Unexplained chronic diarrhoea
	Unexplained chronic renal impairment
	Unexplained fever
	Unexplained leukocytopenia/thrombocytopenia, >4 weeks
	Unexplained lymphadenopathy
	Unexplained oral candidiasis
	Unexplained weight loss
	Visceral leishmaniasis

Supplementary Table S2: All 62 HIV indicator conditions grouped per specialty. AIDS-defining conditions are written in italics.

Dermatology / venereology	<i>Herpes simplex, ulcer(s) >1 month/bronchitis/pneumonitis</i>
	<i>Kaposi's sarcoma</i>
	Herpes zoster
	Seborrheic dermatitis/exanthema
	Severe or atypical psoriasis
	Sexually transmitted infections
Gastroenterology / hepatology	<i>Candidiasis, oesophageal</i>
	<i>Cryptosporidiosis diarrhoea, >1 month</i>
	<i>Isosporiasis, >1 month</i>
	Anal cancer/dysplasia
	Hepatitis A
	Hepatitis B (acute or chronic)
	Hepatitis C (acute or chronic)
	Unexplained chronic diarrhoea
Gynaecology / obstetrics	<i>Cervical cancer</i>
	Cervical dysplasia
	Pregnancy (implications for the unborn child)
Haematology	<i>Non-Hodgkin lymphoma</i>
	Castleman's disease
	Idiopathic/thrombotic thrombocytopenic purpura
	Malignant lymphoma/Hodgkin's lymphoma
Internal medicine	<i>Atypical disseminated leishmaniasis</i>
	<i>Candidiasis, bronchial/tracheal/lungs</i>
	<i>Coccidioidomycosis, disseminated/extrapulmonary</i>
	<i>Cryptococcosis, extrapulmonary</i>
	<i>Cytomegalovirus, other (except liver, spleen, glands)</i>
	<i>Histoplasmosis, disseminated/extrapulmonary</i>
	<i>Penicilliosis, disseminated</i>
	<i>Reactivation of American trypanosomiasis (meningoencephalitis or myocarditis)</i>
	<i>Salmonella septicaemia, recurrent</i>
	Candidaemia
	Candidiasis
	Invasive pneumococcal disease
	Mononucleosis-like illness
	Oral hairy leukoplakia
	Unexplained chronic renal impairment
	Unexplained fever

	Unexplained leukocytopenia/thrombocytopenia lasting >4 weeks
	Unexplained lymphadenopathy
	Unexplained oral candidiasis
	Unexplained weight loss
	Visceral leishmaniasis
Neurology / neurosurgery	<i>Cerebral toxoplasmosis</i>
	<i>Primary cerebral lymphoma</i>
	<i>Progressive multifocal leucoencephalopathy</i>
	Cerebral abscess
	Guillain-Barré syndrome
	Lymphocytic meningitis
	Mononeuritis
	Multiple sclerosis-like disease
	Peripheral neuropathy
	Primary space occupying lesion of the brain
Subcortical dementia	
Ophthalmology	<i>Cytomegalovirus retinitis</i>
	Infective retinal diseases, including herpes viruses and toxoplasma
Pulmonology	<i>Mycobacterium avium complex or Mycobacterium kansasii, disseminated or extrapulmonary</i>
	<i>Mycobacterium, other species or unidentified species, disseminated or extrapulmonary</i>
	<i>Mycobacterium tuberculosis, pulmonary or extrapulmonary</i>
	<i>Pneumocystis carinii pneumonia</i>
	<i>Pneumonia, recurrent (2 or more episodes in 12 months)</i>
	Community-acquired pneumonia
Primary lung cancer	

Supplementary Table S3: Total number and proportions of identified HIV indicator condition guidelines that report the association with HIV and recommend HIV testing overall, geographically ordered (Western versus Eastern Europe) and according to achieved 90-90-90 goals (90-90-90 goals achieved versus not yet achieved) and grouped according to AIDS-defining conditions and non-AIDS-defining HIV indicator conditions

	Number of identified guidelines	Association with HIV reported n (%)	HIV testing recommended n (%)
All Guidelines	791	545 (69)	366 (46)
AIDS-defining conditions	242	175 (72)	101 (42)
Non-AIDS-defining HIV indicator conditions	549	370 (67)	265 (48)
Western Europe	503	329 (65)	212 (42)
AIDS-defining conditions	151	117 (77)	54 (36)
Non-AIDS-defining HIV indicator conditions	352	230 (65)	158 (45)
Eastern Europe	288	216 (75)	154 (53)
AIDS-defining conditions	91	76 (84)	47 (52)
Non-AIDS-defining HIV indicator conditions	197	140 (71)	107 (54)
90-90-90 goals achieved	298	180 (60)	112 (38)
AIDS-defining conditions	99	59 (60)	31 (31)
Non-AIDS-defining HIV indicator conditions	199	121 (61)	81 (41)
90-90-90 goals not yet achieved	493	365 (74)	254 (52)
AIDS-defining conditions	143	116 (81)	70 (49)
Non-AIDS-defining HIV indicator conditions	350	249 (71)	184 (53)

HIV = human immunodeficiency virus, AIDS = acquired immune deficiency syndrome

Supplementary Table S4: Total number and proportions of identified HIV indicator condition guidelines per publication year.

Publication year guideline	Total number of guidelines n	Report HIV n (%)	Recommend HIV testing n (%)
1997	0	0	0
1998	1	1 (100)	1 (100)
1999	2	2 (100)	2 (100)
2000	0	0	0
2001	3	2 (67)	2 (67)
Subtotal 1997 - 2001	6	5 (83)	5 (83)
2002	2	2 (100)	1 (50)
2003	23	20 (87)	17 (74)
2004	6	4 (67)	3 (50)
2005	6	1 (17)	0
2006	6	4 (67)	2 (33)
Subtotal 2002 - 2006	43	31 (72)	23 (53)
2007	19	13 (68)	8 (42)
2008	24	19 (79)	15 (63)
2009	23	17 (74)	13 (57)
2010	36	26 (72)	20 (56)
2011	30	21 (70)	13 (43)
Subtotal 2007 - 2011	132	96 (73)	69 (52)

2012	43	17 (40)	12 (28)
2013	35	23 (66)	14 (40)
2014	59	45 (76)	31 (53)
2015	57	41 (72)	25 (44)
2016	102	79 (77)	54 (53)
Subtotal 2012 - 2016	296	205 (69)	136 (46)
2017	58	36 (62)	22 (38)
2018	117	81 (69)	54 (46)
2019	74	55 (74)	35 (47)
2020	29	19 (66)	11 (38)
2021	27	15 (56)	10 (38)
Subtotal 2017-2021	305	206 (68)	132 (43)
Publication year unknown	9	2 (22)	1 (11)

HIV = human immunodeficiency virus

Supplementary Table S5: Total number and proportions of identified HIV indicator condition guidelines in the WHO guideline database grouped by specialty. AIDS-defining conditions are written in italics.

	Total n	Report HIV n (%)	Recommend HIV testing n (%)
Dermatology / venereology			
<i>Herpes simplex, ulcer(s) >1 month/bronchitis/pneumonitis</i>	1	1 (100)	0
<i>Kaposi's sarcoma</i>	0	0	0
Herpes zoster	1	1 (100)	1 (100)
Seborrheic dermatitis/exanthema	0	0	0
Severe or atypical psoriasis	0	0	0
Sexually transmitted infections	9	7 (78)	3 (33)
Gastroenterology / hepatology			
<i>Candidiasis, oesophageal</i>	0	0	0
<i>Cryptosporidiosis diarrhoea, >1 month</i>	0	0	0
<i>Isosporiasis, >1 month</i>	0	0	0
Anal cancer/dysplasia	2	2 (100)	1 (50)
Hepatitis A	0	0	0
Hepatitis B (acute or chronic)	2	2 (100)	1 (50)
Hepatitis C (acute or chronic)	4	4 (100)	2 (50)
Unexplained chronic diarrhoea	0	0	0
Gynaecology / obstetrics			
<i>Cervical cancer</i>	2	2 (100)	1 (50)
Cervical dysplasia	2	2 (100)	1 (50)
Pregnancy (implications for the unborn child)	2	2 (100)	2 (100)
Haematology			

<i>Non-Hodgkin lymphoma</i>	0	0	0
Castleman's disease	0	0	0
Idiopathic/thrombotic thrombocytopenic purpura	0	0	0
Malignant lymphoma/Hodgkin's lymphoma	0	0	0
Internal medicine			
<i>Atypical disseminated leishmaniasis</i>	0	0	0
<i>Candidiasis, bronchial/tracheal/lungs</i>	0	0	0
<i>Coccidioidomycosis, disseminated/extrapulmonary</i>	0	0	0
<i>Cryptococcosis, extrapulmonary</i>	1	1 (100)	0
<i>Cytomegalovirus, other (except liver, spleen, glands)</i>	0	0	0
<i>Histoplasmosis, disseminated/extrapulmonary</i>	0	0	0
<i>Penicilliosis, disseminated</i>	0	0	0
<i>Reactivation of American trypanosomiasis (meningoencephalitis or myocarditis)</i>	0	0	0
<i>Salmonella septicaemia, recurrent</i>	0	0	0
Candidaemia	0	0	0
Candidiasis	0	0	0
Invasive pneumococcal disease	0	0	0
Mononucleosis-like illness	0	0	0
Oral hairy leukoplakia	0	0	0
Unexplained chronic renal impairment	0	0	0
Unexplained fever	1	1 (100)	1 (100)
Unexplained leukocytopenia/thrombocytopenia lasting >4 weeks	0	0	0
Unexplained lymphadenopathy	0	0	0
Unexplained oral candidiasis	0	0	0
Unexplained weight loss	0	0	0
Visceral leishmaniasis	0	0	0
Neurology / neurosurgery			
<i>Cerebral toxoplasmosis</i>	0	0	0
<i>Primary cerebral lymphoma</i>	0	0	0
<i>Progressive multifocal leucoencephalopathy</i>	0	0	0
Cerebral abscess	0	0	0
Guillain-Barré syndrome	0	0	0
Lymphocytic meningitis	1	0	0
Mononeuritis	0	0	0
Multiple sclerosis-like disease	0	0	0

Peripheral neuropathy	0	0	0
Primary space occupying lesion of the brain	0	0	0
Subcortical dementia	1	1 (100)	0
Ophthalmology			
<i>Cytomegalovirus retinitis</i>	0	0	0
Infective retinal diseases, including herpes viruses and toxoplasma	0	0	0
Pulmonology			
<i>Mycobacterium avium complex (MAC) or Mycobacterium kansasii, disseminated or extrapulmonary</i>	0	0	0
<i>Mycobacterium, other species or unidentified species, disseminated or extrapulmonary</i>	0	0	0
<i>Mycobacterium tuberculosis, pulmonary or extrapulmonary</i>	5	5 (100)	4 (80)
<i>Pneumocystis carinii pneumonia</i>	0	0	0
<i>Pneumonia, recurrent (2 or more episodes in 12 months)</i>	0	0	0
Community-acquired pneumonia	0	0	0
Primary lung cancer	0	0	0
Total	34	31 (91)	17 (50)
AIDS-defining conditions	9	9 (100)	5 (56)
Non-AIDS-defining HIV indicator conditions	25	22 (88)	12 (48)

HIV = human immunodeficiency virus, AIDS = acquired immune deficiency syndrome

Supplementary Table S6: Total number and proportions of HIV indicator condition guidelines that report HIV and recommend HIV testing per HIV indicator condition. AIDS-defining conditions are written in italics.

	Total n	Report HIV n (%)	Recommend HIV testing n (%)
Dermatology / venereology			
<i>Herpes simplex, ulcer(s) >1 month/bronchitis/pneumonitis</i>	12	8 (67)	5 (42)
<i>Kaposi's sarcoma</i>	11	9 (82)	4 (36)
Herpes zoster	16	12 (75)	10 (63)
Seborrheic dermatitis/exanthema	7	5 (71)	1 (14)
Severe or atypical psoriasis	20	11 (55)	8 (40)
Sexually transmitted infections	76	71 (93)	53 (70)
Gastroenterology / hepatology			
<i>Candidiasis, oesophageal</i>	7	6 (86)	2 (29)
<i>Cryptosporidiosis diarrhoea, >1 month</i>	13	11 (85)	4 (31)
<i>Isosporiasis, >1 month</i>	9	6 (67)	3 (33)
Anal cancer/dysplasia	18	16 (89)	11 (61)
Hepatitis A	13	3 (23)	2 (15)
Hepatitis B (acute or chronic)	28	24 (86)	19 (68)
Hepatitis C (acute or chronic)	25	20 (80)	16 (64)
Unexplained chronic diarrhea	7	4 (57)	1 (14)
Gynaecology / obstetrics			

<i>Cervical cancer</i>	25	8 (32)	2 (8)
Cervical dysplasia	24	11 (46)	3 (13)
Pregnancy (implications for the unborn child)	31	29 (94)	29 (94)
Haematology			
<i>Non-Hodgkin lymphoma</i>	22	22 (100)	21 (95)
Castleman's disease	4	3 (75)	2 (50)
Idiopathic/thrombotic thrombocytopenic purpura	19	15 (79)	14 (74)
Malignant lymphoma/Hodgkin's lymphoma	36	25 (69)	24 (67)
Internal medicine			
<i>Atypical disseminated leishmaniasis</i>	11	8 (73)	4 (36)
<i>Candidiasis, bronchial/tracheal/lungs</i>	7	3 (43)	1 (14)
<i>Coccidioidomycosis, disseminated/extrapulmonary</i>	2	2 (100)	1 (50)
<i>Cryptococcosis, extrapulmonary</i>	5	4 (80)	2 (40)
<i>Cytomegalovirus, other (except liver, spleen, glands)</i>	8	6 (75)	2 (25)
<i>Histoplasmosis, disseminated/extrapulmonary</i>	2	1 (50)	1 (50)
<i>Penicilliosis, disseminated</i>	0	0	0
<i>Reactivation of American trypanosomiasis (meningoencephalitis or myocarditis)</i>	1	0	0
<i>Salmonella septicaemia, recurrent</i>	9	5 (56)	2 (22)
Candidaemia	5	1 (20)	0
Candidiasis	11	5 (45)	1 (9)

Invasive pneumococcal disease	7	3 (43)	0
Mononucleosis-like illness	8	8 (100)	5 (63)
Oral hairy leukoplakia	8	4 (50)	3 (38)
Unexplained chronic renal impairment	19	5 (26)	5 (26)
Unexplained fever	3	3 (100)	3 (100)
Unexplained leukocytopenia/thrombocytopenia lasting >4 weeks	10	9 (90)	8 (80)
Unexplained lymphadenopathy	9	6 (67)	6 (67)
Unexplained oral candidiasis	8	4 (50)	3 (38)
Unexplained weight loss	4	2 (50)	1 (25)
Visceral leishmaniasis	6	5 (83)	2 (33)
Neurology / neurosurgery			
<i>Cerebral toxoplasmosis</i>	9	8 (89)	3 (33)
<i>Primary cerebral lymphoma</i>	13	12 (92)	10 (77)
<i>Progressive multifocal leucoencephalopathy</i>	2	1 (50)	1 (50)
Cerebral abscess	9	5 (56)	4 (44)
Guillain–Barré syndrome	7	5 (71)	4 (57)
Lymphocytic meningitis	10	7 (70)	4 (40)
Mononeuritis	7	5 (71)	4 (57)
Multiple sclerosis-like disease	14	8 (57)	3 (21)
Peripheral neuropathy	12	9 (75)	2 (17)

Primary space occupying lesion of the brain	3	2 (67)	2 (67)
Subcortical dementia	14	10 (71)	6 (43)
Ophthalmology			
<i>Cytomegalovirus retinitis</i>	9	8 (89)	3 (33)
Infective retinal diseases including herpes viruses and toxoplasma	6	2 (33)	1 (17)
Pulmonology			
<i>Mycobacterium avium complex (MAC) or Mycobacterium kansasii, disseminated or extrapulmonary</i>	7	6 (86)	4 (57)
<i>Mycobacterium, other species or unidentified species, disseminated or extrapulmonary</i>	3	2 (67)	2 (67)
<i>Mycobacterium tuberculosis, pulmonary or extrapulmonary</i>	31	27 (87)	18 (58)
<i>Pneumocystis carinii pneumonia</i>	9	7 (78)	4 (44)
<i>Pneumonia, recurrent</i>	14	5 (36)	2 (14)
Community-acquired pneumonia	18	8 (44)	2 (11)
Primary lung cancer	27	5 (19)	3 (11)

HIV = human immunodeficiency virus

Supplementary Table S7: The total number and proportions of HIV indicator condition guidelines that report HIV and recommend HIV testing per HIV indicator condition geographically grouped. AIDS-defining conditions are written in italics.

	Western Europe			Eastern Europe		
	Total	Report HIV n (%)	Recommend HIV testing n (%)	Total	Report HIV n (%)	Recommend HIV testing n (%)
Dermatology / venereology						
<i>Herpes simplex, ulcer(s) >1 month/bronchitis/pneumonitis</i>	6	4 (67)	2 (33)	6	4 (67)	3 (50)
<i>Kaposi's sarcoma</i>	5	5 (100)	2 (40)	6	4 (67)	2 (33)
Herpes zoster	9	6 (67)	5 (56)	7	6 (86)	5 (71)
Seborrheic dermatitis/exanthema	3	3 (100)	1 (33)	4	2 (50)	0
Severe or atypical psoriasis	13	6 (46)	3 (23)	7	5 (71)	5 (71)
Sexually transmitted infections	52	50 (96)	34 (65)	24	21 (88)	19 (79)
Subtotal	88	74 (84)	47 (53)	54	42 (78)	34 (63)
Gastroenterology / hepatology						
<i>Candidiasis, oesophageal</i>	6	5 (83)	1 (17)	1	1 (100)	1 (100)
<i>Cryptosporidiosis diarrhoea, >1 month</i>	9	7 (78)	2 (22)	4	4 (100)	2 (50)
<i>Isosporiasis, >1 month</i>	6	4 (67)	1 (17)	3	2 (67)	2 (67)
Anal cancer/dysplasia	12	12 (100)	10 (83)	6	4 (67)	1 (17)
Hepatitis A	9	1 (11)	1 (11)	4	2 (50)	1 (25)
Hepatitis B (acute or chronic)	18	16 (89)	13 (72)	10	8 (80)	6 (60)
Hepatitis C (acute or chronic)	16	12 (75)	11 (69)	9	8 (89)	5 (56)

Unexplained chronic diarrhea	4	2 (50)	0	3	2 (67)	1 (33)
Subtotal	79	58 (73)	39 (49)	38	30 (79)	19 (50)
Gynaecology / obstetrics						
<i>Cervical cancer</i>	16	3 (19)	0	9	5 (56)	2 (22)
Cervical dysplasia	17	6 (35)	0	7	5 (71)	3 (43)
Pregnancy (implications for the unborn child)	10	9 (90)	9 (90)	21	20 (95)	20 (95)
Subtotal	43	18 (42)	9 (21)	37	30 (81)	25 (68)
Haematology						
<i>Non-Hodgkin lymphoma</i>	15 (100)	15 (100)	15 (100)	9	5 (56)	2 (22)
Castleman's disease	1	1 (100)	1 (100)	3	2 (67)	1 (33)
Idiopathic/Thrombotic thrombocytopenic purpura	14	12 (86)	11 (79)	5	3 (60)	3 (60)
Malignant lymphoma/Hodgkin's lymphoma	27	18 (67)	17 (63)	9	7 (78)	7 (78)
Subtotal	57	46 (81)	44 (77)	24	19 (79)	17 (71)
Internal medicine						
<i>Atypical disseminated leishmaniasis</i>	8	6 (75)	3 (38)	3	2 (67)	1 (33)
<i>Candidiasis, bronchial/tracheal/lungs</i>	6	2 (33)	0	1	1 (100)	1 (100)
<i>Coccidioidomycosis, disseminated/extrapulmonary</i>	1	0	0	1	1 (100)	1 (100)
<i>Cryptococcosis, extrapulmonary</i>	4	3 (75)	1 (25)	1	1 (100)	1 (100)
<i>Cytomegalovirus, other (except liver, spleen, glands)</i>	5	3 (60)	1 (20)	4	4 (100)	2 (50)
<i>Histoplasmosis, disseminated/extrapulmonary</i>	1	0	0	1	1 (100)	1 (100)

<i>Penicilliosis, disseminated</i>	0	0	0	0	0	0
<i>Reactivation of American trypanosomiasis (meningoencephalitis or myocarditis)</i>	2	0	0	0	0	0
<i>Salmonella septicaemia, recurrent</i>	6	2 (33)	0	3	3 (100)	2 (67)
Candidaemia	4	1 (25)	0	1	0	0
Candidiasis	6	3 (50)	0	5	2 (40)	1 (20)
Invasive pneumococcal disease	6	2 (33)	0	1	1 (100)	0
Mononucleosis-like illness	4	4 (100)	1 (25)	4	4 (100)	4 (100)
Oral hairy leukoplakia	5	1 (20)	0	3	3 (100)	3 (100)
Unexplained chronic renal impairment	11	2 (18)	2 (18)	8	3 (38)	3 (38)
Unexplained fever	2	2 (100)	2 (100)	1	1 (100)	1 (100)
Unexplained leukocytopenia/thrombocytopenia lasting >4 weeks	8	8 (100)	7 (88)	2	1 (50)	1 (50)
Unexplained lymphadenopathy	6	4 (67)	4 (67)	3	2 (67)	2 (67)
Unexplained oral candidiasis	5	2 (40)	1 (20)	3	2 (67)	2 (67)
Unexplained weight loss	3	1 (33)	0	1	1 (100)	1 (100)
Visceral leishmaniasis	3	3 (100)	1 (33)	3	2 (67)	1 (33)
subtotal	95	50 (53)	23 (24)	48	34 (71)	27 (56)
Neurology / neurosurgery						
<i>Cerebral toxoplasmosis</i>	5	4 (80)	1 (20)	4	4 (100)	2 (50)
<i>Primary cerebral lymphoma</i>	8	7 (88)	6 (75)	5	5 (100)	4 (80)
<i>Progressive multifocal leukoencephalopathy</i>	1	0	0	1	1 (100)	1 (100)

Cerebral abscess	4	3 (75)	3 (75)	5	2 (40)	1 (20)
Guillain–Barré syndrome	5	3 (60)	2 (40)	2	2 (100)	2 (100)
Lymphocytic meningitis	7	6 (86)	4 (57)	3	1 (33)	0
Mononeuritis	6	4 (67)	3 (50)	1	1 (100)	1 (100)
Multiple sclerosis-like disease	11	6 (55)	2 (18)	3	2 (67)	1 (33)
Peripheral neuropathy	1	1 (100)	1 (100)	2	1 (50)	1 (50)
Primary space occupying lesion of the brain	10	7 (70)	1 (10)	2	2 (100)	1 (50)
Subcortical dementia	12	8 (67)	5 (42)	2	2 (100)	1 (50)
Subtotal	70	49 (70)	28 (40)	30	23 (77)	15 (50)
Ophthalmology						
<i>Cytomegalovirus retinitis</i>	5	4 (80)	1 (20)	4	4 (100)	2 (50)
Infective retinal diseases, including herpes viruses and toxoplasma	1	0	0	5	2 (40)	1 (20)
Subtotal	6	4 (67)	1 (17)	9	6 (67)	3 (33)
Pulmonology						
<i>Mycobacterium avium complex or Mycobacterium kansasii, disseminated or extrapulmonary</i>	3	2 (67)	1 (33)	4	4 (100)	3 (75)
<i>Mycobacterium, other species or unidentified species, disseminated or extrapulmonary</i>	1	1 (100)	1 (100)	2	1 (50)	1 (50)
<i>Mycobacterium tuberculosis, pulmonary or extrapulmonary</i>	19	16 (84)	13 (68)	12	11 (92)	5 (42)
<i>Pneumocystis carinii pneumonia</i>	4	2 (50)	1 (25)	5	5 (100)	3 (60)
<i>Pneumonia, recurrent (2 or more episodes in 12 months)</i>	9	3 (33)	2 (22)	5	2 (40)	0
Community-acquired pneumonia	10	4	2	8	4	0

		(40)	(20)		(50)	
Primary lung cancer	17	1 (6)	1 (6)	10	4 (40)	2 (20)
Subtotal	63	29 (46)	21 (33)	46	31 (67)	14 (30)

HIV = human immunodeficiency virus

Supplementary Table S8: Total number and proportions of HIV indicator condition guidelines that report HIV and recommend HIV testing per HIV indicator condition grouped according to achieved 90-90-90 goals. AIDS-defining conditions are written in italics.

	90 – 90 – 90 goals achieved			90 – 90 – 90 goals not achieved		
	Total	Report HIV n (%)	Recommend HIV testing n (%)	Total	Report HIV n (%)	Recommend HIV testing n (%)
Dermatology / venereology						
<i>Herpes simplex, ulcer(s) >1 month/bronchitis/pneumonitis</i>	4	2 (50)	0	8	6 (75)	5 (63)
<i>Kaposi's sarcoma</i>	3	3 (100)	1 (33)	8	6 (75)	3 (38)
Herpes zoster	6	3 (50)	3 (50)	10	9 (90)	7 (70)
Seborrheic dermatitis/exanthema	3	3 (100)	1 (33)	4	2 (50)	0
Severe or atypical psoriasis	9	3 (33)	1 (11)	11	8 (73)	7 (64)
Sexually transmitted infections	24	24 (100)	18 (75)	52	47 (90)	35 (67)
Subtotal	49	38 (78)	24 (49)	93	78 (84)	57 (61)
Gastroenterology / hepatology						
<i>Candidiasis, oesophageal</i>	4	3 (75)	1 (25)	3	3 (100)	1 (33)
<i>Cryptosporidiosis diarrhoea, >1 month</i>	6	4 (67)	0	7	7 (100)	4 (57)
<i>Isosporiasis, >1 month</i>	4	2 (50)	0	5	4 (80)	3 (60)
Anal cancer/dysplasia	6	6 (100)	6 (100)	12	10 (83)	5 (42)
Hepatitis A	6	1 (17)	1 (17)	7	2 (29)	1 (14)
Hepatitis B (acute or chronic)	11	11 (100)	8 (73)	17	13 (76)	11 (65)
Hepatitis C (acute or chronic)	9	6	5	16	14	11

		(67)	(56)		(88)	(69)
Unexplained chronic diarrhoea	3	1 (33)	0	4	3 (75)	1 (25)
Subtotal	49	34 (71)	21 (44)	71	56 (78)	37 (54)
Gynaecology / obstetrics						
<i>Cervical cancer</i>	11	1 (9)	0	14	7 (50)	2 (14)
Cervical dysplasia	10	2 (20)	0	14	9 (64)	3 (21)
Pregnancy (implications for the unborn child)	6	5 (83)	5 (83)	25	24 (96)	24 (96)
Subtotal	27	8 (30)	5 (19)	53	40 (75)	29 (55)
Haematology						
<i>Non-Hodgkin lymphoma</i>	11	11 (100)	11 (100)	11	11 (100)	10 (91)
Castleman's disease	1	1 (100)	1 (100)	3	2 (67)	1 (33)
Idiopathic/thrombotic thrombocytopenic purpura	6	5 (83)	4 (67)	13	10 (77)	10 (77)
Malignant lymphoma/Hodgkin's lymphoma	13	7 (54)	6 (46)	23	18 (78)	18 (78)
Subtotal	31	24 (77)	22 (71)	50	41 (82)	39 (78)
Internal Medicine						
<i>Atypical disseminated leishmaniasis</i>	5	4 (80)	1 (20)	6	4 (67)	3 (50)
<i>Candidiasis, bronchial/tracheal/lungs</i>	3	0	0	4	3 (75)	1 (25)
<i>Coccidioidomycosis, disseminated/extrapulmonary</i>	1	1 (100)	0	1	1 (100)	1 (100)
<i>Cryptococcosis, extrapulmonary</i>	3	3 (100)	1 (33)	2	1 (50)	1 (50)
<i>Cytomegalovirus, other (except liver, spleen, glands)</i>	3	2 (67)	0	5	4 (80)	2 (40)

<i>Histoplasmosis, disseminated/extrapulmonary</i>	1	0	0	1	1 (100)	1 (100)
<i>Penicilliosis, disseminated</i>	0	0	0	0	0	0
<i>Reactivation of American trypanosomiasis (meningoencephalitis or myocarditis)</i>	1	0	0	1	0	0
<i>Salmonella septicaemia, recurrent</i>	4	1 (25)	0	5	4 (80)	2 (40)
Candidaemia	2	1 (50)	0	3	0	0
Candidiasis	3	1 (33)	0	8	4 (50)	1 (13)
Invasive pneumococcal disease	6	2 (33)	0	1	1 (100)	0
Mononucleosis-like illness	4	4 (100)	1 (25)	4	4 (100)	4 (100)
Oral hairy leukoplakia	3	1 (33)	0	5	3 (60)	3 (60)
Unexplained chronic renal impairment	6	0	0	13	5 (38)	3 (60)
Unexplained fever	2	2 (100)	2 (100)	1	1 (100)	1 (100)
Unexplained leukocytopenia/thrombocytopenia lasting >4 weeks	6	6 (100)	5 (83)	4	3 (75)	3 (75)
Unexplained lymphadenopathy	4	2 (50)	2 (50)	5	4 (80)	4 (80)
Unexplained oral candidiasis	3	1 (33)	0	5	3 (60)	2 (40)
Unexplained weight loss	2	1 (50)	0	2	1 (50)	1 (50)
Visceral leishmaniasis	1	1 (100)	0	5	4 (80)	2 (40)
Subtotal	63	33 (53)	13 (21)	81	51 (63)	37 (46)
Neurology / neurosurgery						
<i>Cerebral toxoplasmosis</i>	4	3 (75)	1 (25)	5	5 (100)	2 (40)
<i>Primary cerebral lymphoma</i>	3	3 (100)	3 (100)	10	9 (90)	7 (70)

<i>Progressive multifocal leukoencephalopathy</i>	0	0	0	2	1 (50)	1 (50)
Cerebral abscess	2	2 (100)	2 (100)	7	3 (43)	2 (29)
Guillain–Barré syndrome	3	2 (67)	1 (33)	4	3 (75)	3 (75)
Lymphocytic meningitis	4	3 (75)	1 (25)	6	4 (67)	3 (50)
Mononeuritis	3	2 (67)	2 (67)	4	3 (75)	2 (50)
Multiple sclerosis-like disease	5	3 (60)	1 (20)	9	5 (56)	2 (22)
Peripheral neuropathy	4	3 (75)	1 (25)	8	6 (75)	1 (13)
Primary space occupying lesion of the brain	0	0	0	3	2 (67)	2 (67)
Subcortical dementia	8	5 (63)	2 (25)	6	5 (83)	4 (67)
Subtotal	36	26 (72)	14 (39)	64	46 (72)	29 (45)
Ophthalmology						
<i>Cytomegalovirus retinitis</i>	4	3 (75)	0	5	5 (100)	3 (60)
Infective retinal diseases, including herpes viruses and toxoplasma	1	0	0	5	2 (40)	1 (20)
Subtotal	5	3 (60)	0	10	7 (70)	4 (40)
Pulmonology						
<i>Mycobacterium avium complex or Mycobacterium kansasii, disseminated or extrapulmonary</i>	2	1 (50)	1 (50)	5	5 (100)	3 (60)
<i>Mycobacterium, other species or unidentified species, disseminated or extrapulmonary</i>	1	1 (100)	1 (100)	2	1 (50)	1 (50)
<i>Mycobacterium tuberculosis, pulmonary or extrapulmonary</i>	11	9 (82)	8 (73)	20	18 (90)	10 (50)
<i>Pneumocystis carinii pneumonia</i>	3	1 (33)	1 (33)	6	6 (100)	3 (50)
<i>Pneumonia, recurrent (2 or more episodes in 12 months)</i>	7	1 (14)	1 (14)	7	4 (57)	1 (14)

Community-acquired pneumonia	6	1 (17)	1 (17)	12	7 (58)	1 (8)
Primary lung cancer	8	0	0	19	5 (26)	3 (16)
Subtotal	38	14 (37)	13 (34)	71	46 (65)	22 (31)

HIV = human immunodeficiency virus

Supplementary Table S9: The total number and proportions of HIV indicator condition guidelines identified that report the association with HIV and recommend HIV testing per specialty overall, geographically ordered (Western and Eastern Europe) and according to achieved 90-90-90 goals.

Specialty	Number of guidelines identified	Association with HIV reported n (%)	HIV testing recommended n (%)
Dermatology / venereology			
Total	142	116 (82)	81 (57)
Western Europe	88	74 (84)	47 (53)
Eastern Europe	54	42 (78)	34 (63)
90-90-90 goals achieved	49	38 (78)	24 (49)
90-90-90 goals not yet achieved	93	78 (84)	57 (61)
Gastroenterology / hepatology			
Total	120	90 (75)	58 (48)
Western Europe	80	59 (74)	39 (49)
Eastern Europe	40	31 (78)	19 (48)
90-90-90 goals achieved	49	34 (69)	21 (43)
90-90-90 goals not yet achieved	71	56 (79)	37 (52)
Gynaecology / obstetrics			
Total	80	48 (60)	34 (43)
Western Europe	43	18 (42)	9 (21)
Eastern Europe	37	30 (81)	25 (68)
90-90-90 achieved	27	8	5

		(30)	(19)
90-90-90 not yet achieved	53	40 (75)	29 (55)
Haematology			
Total	81	65 (80)	61 (75)
Western Europe	57	46 (81)	44 (77)
Eastern Europe	24	19 (79)	17 (71)
90-90-90 goals achieved	31	24 (77)	22 (71)
90-90-90 goals not yet achieved	50	41 (82)	39 (78)
Internal medicine			
Total	144	84 (58)	50 (35)
Western Europe	96	50 (52)	23 (23)
Eastern Europe	48	34 (71)	27 (56)
90-90-90 goals achieved	63	33 (52)	13 (21)
90-90-90 goals not yet achieved	81	51 (63)	37 (46)
Neurology / neurosurgery			
Total	100	72 (72)	43 (43)
Western Europe	70	49 (70)	28 (40)
Eastern Europe	30	23 (77)	15 (50)
90-90-90 goals achieved	36	26 (72)	14 (39)
90-90-90 goals not yet achieved	64	46 (72)	29 (45)
Ophthalmology			

Total	15	10 (67)	4 (27)
Western Europe	6	4 (67)	1 (17)
Eastern Europe	9	6 (67)	3 (33)
90-90-90 achieved	5	3 (60)	0
90-90-90 not yet achieved	10	7 (70)	4 (40)
Pulmonology			
Total	109	60 (55)	35 (32)
Western Europe	63	29 (46)	21 (33)
Eastern Europe	46	31 (67)	14 (30)
90-90-90 goals achieved	38	14 (37)	13 (34)
90-90-90 goals not yet achieved	71	46 (65)	22 (31)

HIV = human immunodeficiency virus