

Annotation of intervention studies: Summary against initial program theories

Key: sound (+++), moderate (++) , partial (+) or no evidence (X)

First Author & Location	Intervention	Adaptation of intervention activities to increase cultural appropriateness	Mechanisms of adaptation 'authenticity'	Mechanisms of adaptation 'understanding'	Mechanisms of adaptation 'consonance'	Mechanisms of adaptation 'specificity'	Mechanisms of adaptation 'embeddedness'	Mechanisms of adaptation 'endorsement'	Mechanisms of adaptation 'framing'
Amaro (2002) Boston, USA	Comparison of two interventions for immigrant women: 1. HIV-specific with participatory education; 2. women's health specific and didactic	Language (Spanish)							
		Bilingual Community Educators (BCEs) – to facilitate groups	1. +++	1. +++	1. +++	1. ++	1. ++	1.X	1. X
		Gender - of facilitator							
		Content-used 'cultural elements' in curriculum	2. +++	2. +++	2. +++	2. ++	2.+	2. X	2. X
	Each intervention 12 group sessions & 16 hours of content - focus on sexual risk reduction								
Carballo-Diequez (2005) New York City, USA	8 group sessions with a focus on sexual risk reduction for immigrant gay men	Language (Spanish) Bilingual Community Educators (BCEs) Gender & sexuality - of facilitator Content – use of 'dichos' Spanish proverbs	+++	+++	+++	++	++	++	+

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Chemtov (1993) Israel	200 group sessions to raise awareness of HIV/AIDS in a newly arrived immigrant community A range of supporting activities (e.g. health promotion resources) to reach 24,000 newly arrived immigrants	Language (Amharic) Bilingual Community Educators (BCEs) – trained 34 ‘cultural mediators’ to deliver a program in various ways – mainly education sessions Content – use of popular proverbs Settings- sessions were delivered mainly in Ethiopian community settings (inferred)	+++	+++	+++	+++	++	X	+
Choi (1996) San Francisco, USA	Single group session with a focus on sexual risk reduction for immigrant and ethnic minority gay and bisexual men	Content – exploration of positive ethnic and sexual identities Gender and sexuality - of co-facilitator of group	+++	++	+++	+	++	X	X

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Conner (2004) California, USA	Case studies of evaluation of two interventions	1. Language (Spanish) Content – developed a low-literacy comic book (<i>fotonovela</i>)	1. +++	1. +++	1. +++	1. +++	1. ++	1. +++	1. +++
	1. Tres Hombres sin Fronteras – a health promotion resource with a focus on sexual risk reduction for immigrant farmworkers	2. Language (Spanish) Bilingual Community Educators (BCEs) – deliver the retreat program	2. +++	2. +++	2. +++	2. ++	2. +++	2. ++	2. +++
	2. SOLAAR - retreat for small groups with a focus on sexual risk reduction for immigrant gay men	Gender and sexuality Content- primary goal of retreat is 'clashing cultural norms' of immigrant cultures and urban American culture							
		Partnership/capacity building - between researchers and CBO (inferred)							

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Darrow (2004) Florida, USA	Reach 2010- Four key activities to raise awareness (not reported in detail)- outreach to residents and community leaders, mass media, Capacity building of CBOs using Abstinence, be Faithful, use Condoms (ABC) prevention messages with a focus on sexual risk reduction	Settings-targeting interventions to multiethnic Black and Hispanic neighbourhoods/communities informed by ethnographic assessments Partnership/capacity building - between research organisation and three CBOs Languages (Spanish and Creole) (inferred) Content-focus groups & surveys with community groups to inform Community Action Plan	+	+++	+++	+	+++	+++	+++

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Diaz (1998) San Francisco, USA	Hermanos de Luna Y Sol, a range of activities to recruit gay and bisexual immigrant men –with an emphasis on low-income, monolingual, unacculturated men- into small group education and peer support activities with a focus on sexual risk reduction	<p>Bilingual Community Educators (BCEs) – to facilitate group activities</p> <p>Language (Spanish)</p> <p>Gender and sexuality – of group facilitators</p> <p>Content – incorporated dominant Latino cultural values on homosexuality in development of content</p> <p>Settings-outreach and advertising to Latino gay and bisexual bars to recruit participants</p>	+++	+++	+++	++	+++	++	++

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Flaskerud (2000) Los Angeles, USA	Various activities including - 1-1 counselling, group discussion, Spanish-language health promotion print and audio-visual resources - to reduce sexual and injecting drug use risks (not reported in detail) for low-income immigrant women	Language(Spanish) Bilingual Community Educators (BCEs) – of health care workers who delivered the intervention in a women and children’s health centre Gender - of health care workers Content- developed taking into account cultural values from focus groups and community consultations Partnership/capacity building - between research organisation and women’s health CBO	+++	++	+++	+++	+++	+++	+++

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Flaskerud (1997) Los Angeles, USA	Various activities including - 1-1 counselling, group discussion, Spanish-language health promotion print and audio-visual resources - to reduce sexual and injecting drug use risks (not reported in detail) for low-income immigrant women	Language(Spanish) Bilingual Community Educators (BCEs) – of health care workers who delivered the intervention in a women and children’s health centre Gender Content- developed taking into account cultural values	+++	++	+++	+++	+++	++	+++

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Haour-Knipe (1999) Switzerland and	<p>Swiss Migrants Project – reporting on exploratory studies, process evaluation and outcome evaluations of three phases of the project</p> <p>Various activities delivered – information dissemination to immigrant communities, HIV workshops, development of health promotion print and audio-visual resources, use of immigrant mass media, and some 1-1 support for PLWHA</p>	<p>Languages (Spanish, Portuguese and Turkish)</p> <p>Bilingual Community Educators (BCEs) – Community Co-ordinators with teams of peer educators 'mediators'</p> <p>Content - developed taking into account cultural values from exploratory needs analysis and community consultations</p> <p>Settings-delivering interventions via existing structures in the three communities</p> <p>Partnership/capacity building – of community 'mediators' and existing community structures</p>	+++	+++	+++	+++	+++	+++	+++

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Hlaing (2006) Florida, USA	Evaluation of Reach 2010- Four key activities to raise awareness - outreach to residents and community leaders, mass media, capacity building of CBOs, using Abstinence, be Faithful, use Condoms prevention messages in a multiethnic community	Settings-targeting interventions to multiethnic neighbourhoods/communities Partnership/capacity building - between research organisation and three CBOs Language (Spanish and Creole)- in health promotion resources	+	++	X	+	++	X	+

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Hovey (2007) Michigan, USA	<i>Informate</i> theatrical presentation to young immigrants in 7 migrant farmworker camps	<p>Language (Spanish)</p> <p>Bilingual Community Educators (BCEs) – male and female young theatre players were from the target groups and called 'Teen Health Aides' (THAa)</p> <p>Content- THAs developed the script taking into account cultural values</p> <p>Settings-delivered theatrical presentation at 7 farmworker migrant camps to enhance accessibility</p>	+++	+++	++	+++	+++	++	X

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Kim (2006) Chicago, USA	Project SEPA, 6 group sessions with a focus on sexual risk reduction for low-income immigrant women	Language(Spanish) Bilingual Community Educators (BCEs) – group facilitators Gender - of facilitators	+++	+++	+++	++	++	X	X
	Study examined intervention participants compared to dropouts to assess predictors of participation	Content - of education sessions (inferred) Settings - variety of methods to recruit participants including Spanish-language media							
Kocken (2001) The Netherlands	Single education session for male immigrants with a focus on HIV prevention and condom use	Language (Turkish and Arabic) Bilingual Community Educators (BCEs) – ‘lay health advisors’ Gender - of ‘lay health advisors’	+++	+++	++	+++	+++	X	+++
		Settings- cafes and mosques to deliver education sessions							

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Loue (1996) San Diego, USA	Establishment of a prevention program and organization to address HIV/AIDS among Asian and Pacific Islanders- Project HAPI	<p>Content of HIV prevention program developed taking into account cultural values from qualitative and quantitative needs analysis</p> <p>Settings-use of 'gatekeepers' to access Asian and Pacific Islander communities</p> <p>Partnership/capacity building – of a range community agencies in working groups, program planning and 'political' meetings</p>	+++	+++	+++	+	+++	+++	+

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Marahaj (1999) UK	Assessment of a range of HIV prevention interventions with refugees and asylum seekers. Four summary case studies of interventions at group and community levels:	<ul style="list-style-type: none"> 1. African Communities HIV Project 	1. +	1. +	1. +	1. ++	1. +++	1. +++	1. X
	1. African Communities HIV Project (AHP)	<ul style="list-style-type: none"> Partnership/capacity building – building alliances to create co-ordinated HIV prevention activities with African communities 2. African Health Football Project 	2. +++	2. +	2. +++	2. +++	2. +++	2. +++	2. ++
	2. African Health Football Project	Settings -integrated HIV health promotion into an African soccer tournament							
	3. Ugandan AIDS Action Play	Bilingual Community Educators (BCEs) –							
4. Refugee Council's HIV and AIDS Development Work	volunteer peer educators from 'Black' HIV services were used to distribute HIV information and staff the intervention								

Partnership/capacity building – tournament players and managers and ‘Black’ volunteers planned the intervention

- 3. Ugandan AIDS Action Play 3. +++ 3. + 3. +++ 3. +++ 3. +++ 3. +++ 3. +++

Bilingual Community Educators (BCEs) – commissioned a Ugandan theatre group to develop a HIV/AIDS play

Content – commissioned a Ugandan theatre group to develop a play around HIV/AIDS

Settings- used a culturally appropriate and popular medium of communication to discuss HIV/AIDS and a variety of community settings to deliver education sessions and perform the play

- 4. Refugee Council's HIV and AIDS Development Work 4. + 4. + 4. + 4. X 4. + 4. X 4. X

Language – HIV prevention resources in 8 languages

Content – of training for HIV and refugee service providers reflected HIV and refugee issues

Partnership/capacity building - support to refugee service providers for HIV work, linking refugee and HIV service providers

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Martijn (2004)	Two studies of a single education session for male immigrants focus on HIV prevention and condom use	Language (Turkish and Arabic)	1. +++	1. +++	1. ++	1. ++	1. +	1. X	1. X
Rotterdam, The Netherlands	Study 1 – delivered by ‘lay health advisors’	Bilingual Community Educators (BCEs) – ‘lay health advisors’ in both studies. Interpreter was used in Study 2 with ‘professional health advisor’	2. ++	2. ++	2. +	2. ++	2. +	2. X	2. X
	Study 2- delivered by ‘lay health advisors’ and ‘professional health advisors’ (with an interpreter)	Gender - ‘lay health advisors’ & ‘professional health advisors’ Settings-used two settings. Study 1 at a Newcomer Integration Project and Study 2 at a refugee reception centre							

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Martin (2005) Chicago, USA	Centro San Bonifacio HIV Prevention Program Education sessions carried out in the community for male and female immigrants with a focus on HIV knowledge and awareness	Language (Spanish) Bilingual Community Educators (BCEs) – ‘promotoras’ were used to recruit and deliver education sessions Settings-used a variety of settings to deliver education session including people’s homes, schools, Church groups	+++	+++	+	++	+++	X	+
Maxwell (2002) Los Angeles, USA	Single education session to young immigrant attendees at a HIV clinic with a focus on condom use and sexual negotiation	Language (Spanish)	+	+	X	X	X	X	X

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Mc Mahon (2005) Sydney & Melbourne, Australia	Pilot ethnic media advertising and publicity campaign targeting immigrants to promote HIV testing and access to treatment and care by PLWHA at public sexual health clinics	Language(multiple) Bilingual Community Educators (BCEs) – as media spokespeople on radio (inferred) Content – campaign themes generated from a needs assessment, refined with focus groups Settings-advertising and publicity used media accessed by immigrants	+++	+++	++	+	+++	+	X
Mishra (1996) California, USA	Tres Hombres sin Fronteras – two health promotion resources with a focus on sexual risk reduction for immigrant male farmworkers	Language (Spanish) Content – developed a low-literacy comic book (<i>fotonovela</i>) and low-health literacy radio segments (<i>radionovela</i>) Settings-outreach to farm camps to distribute resources	++	+++	++	+++	+++	+	+

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Nakyonyi (1993) Toronto, Canada	Africans United to Control AIDS (AUCA) Various activities described including information dissemination to African immigrants, HIV workshops, outreach to African community organisations, use of immigrant mass media	Languages (multiple) Bilingual Community Educators (BCEs) – African volunteers recruited and trained as community educators/outreach workers Content – activities are developed in partnership with community groups (inferred) Settings-use of community events and venues and use of media accessed by African immigrants	+++	++	++	++	+++	+++	++

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Organista (2006) Mexico border area, USA	Two pilot education sessions for Latino Migrant Day with a focus on sexual risk reduction, condom use and reduced alcohol and substance use	Language (inferred) (Spanish) Content- of education sessions developed from formative quant and qual research, use of <i>Lotteria</i> cards, <i>fotonovelas</i> , comic-style books, and <i>radionovelas</i>	++	++	+++	++	++	+	++
Peragallo (2005) Chicago, USA	Project SEPA, 6 group sessions with a focus on sexual risk reduction for low-income immigrant women	Language (Spanish) Bilingual Community Educators (BCEs) – group facilitators Gender - of group facilitators Content- of education sessions (inferred) Settings- a variety of methods to recruit participants including Spanish-language media	+++	+++	++	+++	+++	X	+

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Raj (2001) Boston, USA	Comparison of two interventions to reach low-income immigrant women: 1. HIV-specific with participatory education; 2. women's health specific and didactic	Language (Spanish)	1. +++	1. +++	1. +++	1. ++	1. ++	1. X	1. X
		Bilingual Community Educators (BCEs) – to facilitate groups	2. +++	2. +++	2. +++	2. ++	2. +	2. X	2. X
	Each intervention 12 group sessions & 16 hours of content- with a focus on sexual risk reduction	Content- of education sessions (inferred)							
		Gender - of group facilitator							

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Shtarksh all (2000) Israel	Overview of model for the development of HIV/AIDS programs for immigrants using two programs for immigrants as case studies:	Model proposes an iterative approach to program development including considering: 'old country' and 'new country' values; the cultural transitions inherent in immigration; employing immigrants as 'cultural insighters'; harnessing leadership from the immigrant community; developing culturally specific messages; workforce development of host country health care workers							
	1. Immigrant youth from the former Soviet Union and Ethiopia		1. +	1. X	1. ++	1. +	1. X	1. X	1. ++
	2. Ethiopian immigrants		2. +++	2. +++	2. +++	2. +++	2. X	2. X	2. ++

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Somerville (2006) California and Texas, USA	Training popular opinion leaders to carry out HIV outreach among migrant men who have sex with men	<p>Popular Opinion Leader intervention adapted after needs analysis</p> <p>Language (Spanish) – of training and evaluation material</p> <p>Bilingual Community Educators (BCEs) – YPLs outreach</p> <p>Gender - of YPLs</p> <p>Content – of YPL training adapted to:</p> <ul style="list-style-type: none"> • build on Latino cultural understanding of <i>promotoras</i> • address higher HIV info needs of Latino MSM • place of sexual orientation in YPLs lives • referral skills <p>Settings - in locales known to have high nos. of Latino farm workers</p>	+++	+++	+++	++	+++	++	++

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Soskolne (2002) Israel	Overview of model for the development of HIV/AIDS programs for immigrants using several programs examples as case studies:	Model proposes an iterative approach to program development, involving immigrants as 'cultural insighters' for programs specific to immigrant youth and Ethiopian immigrants.							
	1. Immigrant youth from the former Soviet Union and Ethiopia		1. ++	1. +	1. ++	1. +	1. X	1. X	1. X
	2. Ethiopian immigrants		2. +	2. X	2. ++	2. ++	2. X	2. X	2. X

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Worth (2003) New Zealand	National HIV/AIDS Refugee Health Education Program which comprised training BCEs , developing community-specific action plans, workshops, resource development, support for	Language – various African languages used in workshops Bilingual Community Educators (BCEs) – from a range of Sub-Saharan African backgrounds Content- of education workshops and health promotion resources-used ABC Settings-used a variety of community settings for workshops and developed community HIV/AIDS health promotion action plans	+++	+++	++	+++	+++	++	+++

Annotation of views studies: Summary against initial program theories

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First Author & Location	Study aims	Relevance and cultural appropriateness of 'authenticity'	Relevance and cultural appropriateness of 'understanding'	Relevance and cultural appropriateness of 'consonance'	Relevance and cultural appropriateness of 'specificity'	Relevance and cultural appropriateness of 'embeddedness'	Relevance and cultural appropriateness of 'endorsement'	Relevance and cultural appropriateness of 'framing'
Anderson (2004) London, UK	Explore the lived experiences of immigrant women with HIV	X	X	+++	+	+	++	+++
Apostolopoulos (2006) Arizona & South Carolina, USA	Examine intertwined individual and environmental factors in relation to HIV/STI risks among male –gay and straight-immigrant farmworkers	X	+	++	+	++	X	+++
Ayala (2001) Miami, New York City, Los Angeles, USA	Analyze the relationship between race, class, and unprotected sex among gay men	+	+	++	+	+++	+	+++

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Bhattacharya (2004) New York City, USA	Explore social capital resources and influences on HIV risk behaviours among immigrant heterosexual men	X	X	++	++	++	++	++
Castro-Vazquez (2006) Japan	Explore the relationship between HIV/AIDS and ‘community’ support for immigrants with HIV	X	++	+++	+++	+	+	+++
Chin (1999) Los Angeles, USA	Explore how immigrant women assess HIV risk in social interactions	X	X	++	X	X	X	+
Chin (2007) New York City, USA	Explore the experiences and needs of immigrants living with HIV/AIDS	++	+++	++	++	+++	+++	+++

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Chinouya (2006) Milton Keynes, UK	Explore the role of faith, family life, service utilization and coping among immigrants living with HIV	+	X	+++	X	+++	+++	+++
Dawson (2001) Melbourne, Australia	Explore immigrant women's gender and sexual identities in relation to HIV and sexual health	X	X	+++	+++	+	++	+++
Dawson (2003) Melbourne, Australia & Santiago, Chile	Explore past/present social changes on life experiences related to HIV/AIDS among immigrant women and women in the 'home' country	X	+	++	+	X	X	++

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Diaz (1999) Miami, New York City, Los Angeles, USA	Explore high rates of unprotected anal intercourse among immigrant gay and bisexual men	X	+	+++	++	X	X	++
Diaz (2000) Miami, New York City, Los Angeles, USA	Explore impact of poverty, racism and homophobia on sexual risks, substance use & psych. distress among immigrant gay and bisexual men	X	X	+++	+	X	X	+++
Dodds (2006) UK	Explore social discourses on HIV-related stigma among people incl. HIV-positive immigrants	++	X	+++	++	+++	+	+++

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Dodds (2004) UK	Explore social discourses around HIV-related stigma and discrimination among a range of people including immigrants living with HIV	X	X	++	+	+++	+	+++
Doyal (2003) London, UK	Explore the lived experiences of immigrant women with HIV	X	X	+++	++	++	++	+++
Doyal (2005) London, UK	Explore the lived experiences of immigrant women with HIV	X	X	+++	X	++	X	+++

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Doyal (2006) London, UK	Explore the lived experiences of immigrant women with HIV	X	X	++	X	+	X	++
Flaskerud (1991) Los Angeles, USA	Explore HIV/AIDS health beliefs, and their relationship to ‘traditional’ beliefs, among low-income immigrant women	X	++	++	+++	X	X	++
Flaskerud (1996) Los Angeles, USA	Explore sexual practices, attitudes and knowledge related to HIV transmission among low-income immigrant women	X	+	+++	X	X	X	+++

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Gifford (1998) Melbourne, Australia	Explore ways in which immigrant women understand risks to sexual health including HIV	X	++	+++	+++	+++	+	+++
Hirsch (2002) Atlanta, USA and Mexico	Explore social constructions of HIV risks among immigrant women and women in the 'home' country	X	+++	++	++	+	X	+++
Jemmott (1999) New York City, USA	Explore perceptions of HIV risks and culturally appropriate considerations for HIV prevention among immigrant women	X	+++	++	+++	++	+	+++

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Kang (2003) New York City, USA	Explore cultural attitudes, and HIV-related behaviours and perceptions among undocumented immigrants living with HIV	+++	+++	+++	++	+	X	+++
Korner (2007a) Sydney, Australia	Explore the lived experience of immigrants living with HIV/AIDS – residency issues	+++	+++	++	++	+	X	+++
Korner (2007b) Sydney, Australia	Explore the lived experience of immigrants living with HIV/AIDS – late HIV diagnosis	X	+	+++	+	+	X	+++

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Korner (2007c) Sydney, Australia	Explore the lived experience of immigrants living with HIV/AIDS – disclosure issues	X	+++	+++	+	+	X	+++
Korner (2005) Sydney, Australia	Explore the lived experience of immigrants living with HIV/AIDS	+++	+++	+++	X	X	X	+++
McQuiston (1998) North Carolina, USA	Explore the preventive practices for HIV and STIs of newly arrived immigrants	X	+++	+++	+++	++	X	+++
McQuiston (2000) North Carolina, USA	Explore the preventive practices for HIV of newly arrived immigrants	X	+	++	+++	+	X	+++

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Moreno (2007) New York City, USA	Explore the contextual risks of HIV-positive status and domestic violence against immigrant women	+	+++	+++	+	+	X	+++
Nemoto (2005) San Francisco, USA	Explore the cognitive, cultural and contextual factors that influence HIV-related risk behaviours among female immigrants who engage in sex work at massage parlours and owners/Managers	+	+++	+++	X	++	X	+++

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Poon (2002) Toronto, Canada	Explore cultural and social barriers influencing HIV-related risks among gay, lesbian, and bisexual young immigrants	++	X	++	X	++	X	+++
Rhodes (2007) North Carolina, USA	Explore cultural and social determinants of HIV risk and identify potential intervention approaches among immigrant men	+	++	++	X	++	X	+++
Shedlin (2005) New York State, USA	Explore social and behavioural factors influencing HIV risk among newly arrived immigrants	+	++	+++	X	+++	X	+++

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Shedlin (2002) New York City, USA	Explore predominant cultural influences social regarding sex work, drug use and HIV/AIDS among immigrants with very high risks for HIV/AIDS	X	+	+++	+++	+++	++	+++
Shedlin (2004) New York City, USA	Explore perceptions, beliefs experiences and knowledge of care issues for immigrants most of whom were living with HIV	X	+++	+++	++	+	X	+++

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Steel (2003) Sweden	Explore the impact of pre-migration trauma on HIV risk behaviour among refugees post-settlement (relevant to HIV prevention)	X	X	+	X	X	X	++
Wilson (2004) New York City, USA	Explore experiences of, and responses to, social discrimination among gay immigrants	+	X	+	+	X	X	+++
Yoshikawa (2003) Northeastern city, USA	Explore the experiences of immigrant educators to implement culturally anchored HIV prevention among immigrants	++	++	+++	++	+++	++	+++

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Zuniga (2006), San Diego/Tijuana, USA/Mexico	Explore barriers and facilitators to service utilisation by HIV-positive immigrants	X	+++	+	+	+	X	++