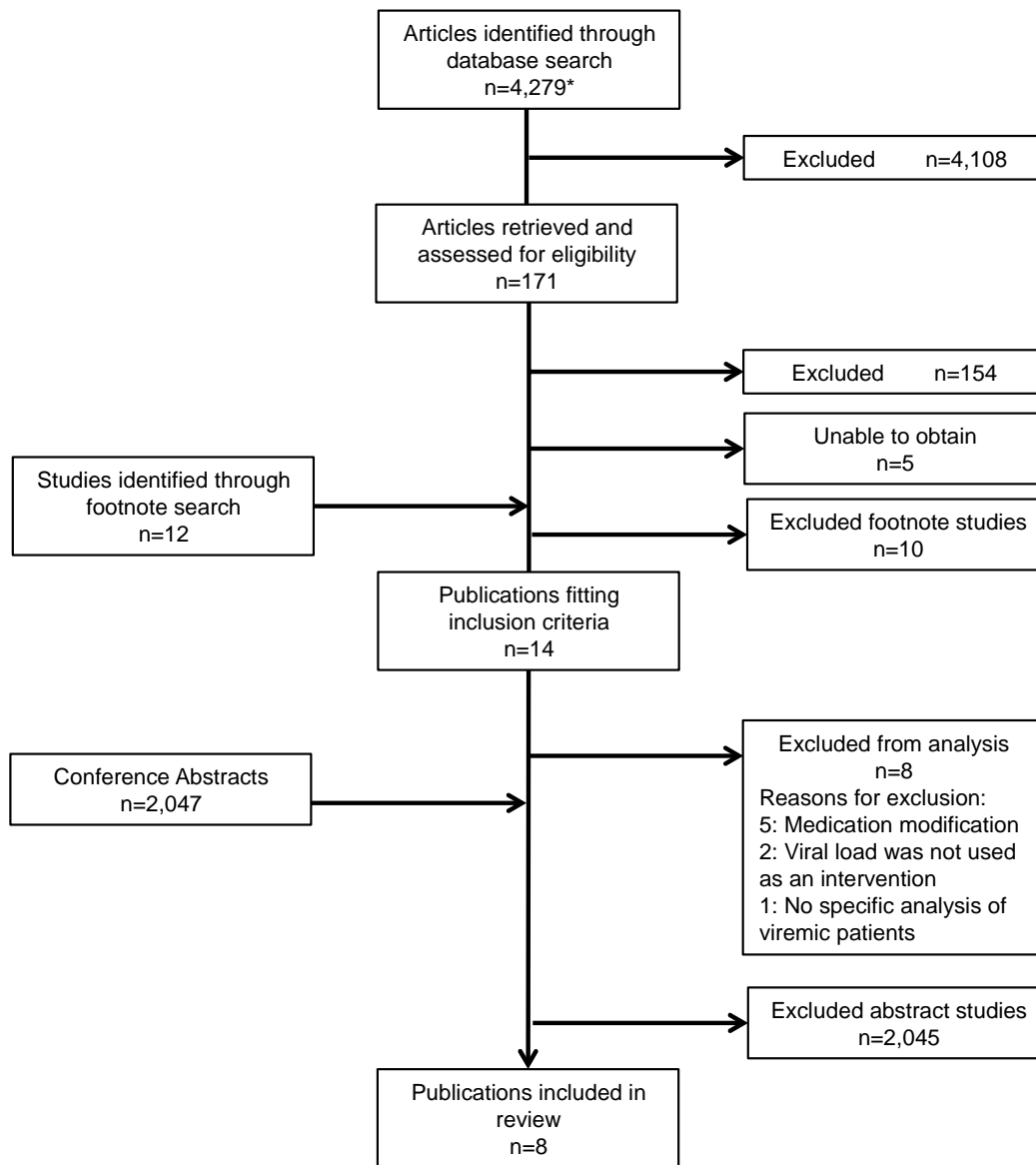# SUPPLEMENTAL DIGITAL CONTENT

Appendix S1:

Search terms used in database searching:

Complian* [Title] AND HIV [Ab] AND [Viral load] [Ab]

Complian* [Title] AND HIV [Ab] AND [Virem*] [Ab]

Complian* [Title] AND HIV [Ab] AND [Resuppress] [Ab]

Complian* [Title] AND HIV [Ab] AND [re-suppress*] [Ab]

Complian* [Title] AND HIV [Ab] AND [virologic suppress*] [Ab]

Complian* [Title] AND HIV [Ab]

Comply [Title] AND HIV [Ab] AND [Viral load] [Ab]

Comply [Title] AND HIV [Ab] AND [Virem*] [Ab]

Comply [Title] AND HIV [Ab] AND [Resuppress] [Ab]

Comply [Title] AND HIV [Ab] AND [re-suppress] [Ab]

Comply [Title] AND HIV [Ab] AND [virologic suppression] [Ab]

Comply [Title] AND HIV [Ab]

Complied [Title] AND HIV [Ab] AND [Viral load] [Ab]

Complied [Title] AND HIV [Ab] AND [Virem*] [Ab]

Complied [Title] AND HIV [Ab] AND [Resuppress] [Ab]

Complied [Title] AND HIV [Ab] AND [re-suppress] [Ab]

Complied [Title] AND HIV [Ab] AND [virologic suppression] [Ab]

Complied [Title] AND HIV [Ab]

Noncomplian* [Title] AND HIV [Ab] AND [Viral load] [Ab]

Noncomplian* [Title] AND HIV [Ab] AND [Virem*] [Ab]

Noncomplian* [Title] AND HIV [Ab] AND [Resuppress] [Ab]

Noncomplian* [Title] AND HIV [Ab] AND [re-suppress] [Ab]

Noncomplian* [Title] AND HIV [Ab] AND [virologic suppression] [Ab]

Noncomplian* [Title] AND HIV [Ab]

Non-complian* [Title] AND HIV [Ab] AND [Viral load] [Ab]

Non-complian* [Title] AND HIV [Ab] AND [Virem*] [Ab]

Non-complian* [Title] AND HIV [Ab] AND [Resuppress] [Ab]

Non-complian* [Title] AND HIV [Ab] AND [re-suppress] [Ab]

Non-complian* [Title] AND HIV [Ab] AND [virologic suppression] [Ab]

Non-complian* [Title] AND HIV [Ab]

Adher* [Title] AND HIV [Ab] AND [Viral load] [Ab]

Adher* [Title] AND HIV [Ab] AND [Virem*] [Ab]

Adher* [Title] AND HIV [Ab] AND [Resuppress] [Ab]

Adher* [Title] AND HIV [Ab] AND [re-suppress] [Ab]

Adher* [Title] AND HIV [Ab] AND [virologic suppression] [Ab]

Adher* [Title] AND HIV [Ab]

Nonadher* [Title] AND HIV [Ab] AND [Viral load] [Ab]

Nonadher* [Title] AND HIV [Ab] AND [Virem*] [Ab]

Nonadher* [Title] AND HIV [Ab] AND [Resuppress] [Ab]

Nonadher* [Title] AND HIV [Ab] AND [re-suppress] [Ab]

Nonadher* [Title] AND HIV [Ab] AND [virologic suppression] [Ab]

Nonadher* [Title] AND HIV [Ab]

Non-adher* [Title] AND HIV [Ab] AND [Viral load] [Ab]

Non-adher* [Title] AND HIV [Ab] AND [Virem*] [Ab]

Non-adher* [Title] AND HIV [Ab] AND [Resuppress] [Ab]

Non-adher* [Title] AND HIV [Ab] AND [re-suppress] [Ab]

Non-adher* [Title] AND HIV [Ab] AND [virologic suppression] [Ab]

Non-adher* [Title] AND HIV [Ab]

HIV [ab] AND 'viral load' [ab] AND 'adher*' [ab]

* **Appendix S2:** Flowchart of article selection process used for the review.

Articles identified through
database search
n=4,279*

Excluded   n=4,108

Articles retrieved and
assessed for eligibility
n=171

Excluded   n=154

Unable to obtain
n=5

Studies identified through
footnote search
n=12

Excluded footnote studies
n=10

Publications fitting
inclusion criteria
n=14

Excluded from analysis
n=8
Reasons for exclusion:
5: Medication modification
2: Viral load was not used
as an intervention
1: No specific analysis of
viremic patients

Conference Abstracts
n=2,047

Excluded abstract studies
n=2,045

Publications included in
review
n=8

* This includes duplicates from an expanded list of search terms

Appendix S3: Assessment of study quality

	Methods				Results		Discussion		
	Sampling/eligibility described	No Comparison group	Design Comparison group	Randomization	Objective outcome measures	Appropriate Statistical analysis	Sources of bias discussed	Relevance to current knowledge	Generalizability assessed
Berki-Benhaddad et. al., 2006 [1]	+	+	-	-	+	+	+	+	+
Calmy et. al., 2007 [2]	+	+	-	-	+	+	-	+	+
DeFino et. al. 2004 [3]	+	+	-	-	+	+	+	+	+
Khan et. al. [4]	+	+	-	-	+	+	-	+	+
Orrell et. al. 2007 [5]	+	+	-	-	+	+	+	+	+
Parker et. al. [6]	+	+	-	-	+	+	-	+	-
Pirkle et. al. 2009 [7]	+	+	-	-	+	+	-	+	-
Wilson et. al. 2009 [8]	+	+	-	-	+	+	-	+	+