

Data collection form

Notes:

- Be consistent in the order and style used to describe each report.
- Record any missing or unclear information so to indicate that the information was not found in the study report(s) but not forgotten.

Review title	Association between nutritional status and the immune response in HIV+ patients under HAART: Protocol for a systematic review
Study ID (<i>surname of first author and year first full report of study was published e.g. Smith 2001</i>)	
Notes	

General Information

Date form completed (<i>dd/mm/yyyy</i>)	
Name of person extracting data	
Reference citation (e.g. Medline)	
Study author contact details	
Type of publication (<i>e.g. full report, abstract, letter</i>)	
Notes:	

Study eligibility

Study Characteristics	Eligibility criteria	Eligibility criteria met?			Location in text or source (pg & ¶/fig/table)
		Yes	No	Unclear/ unspecified	
Type of study	Experimental study including <u>randomized controlled trials (RCTs) or cluster-randomized trials (CRTs).</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Quasi-experimental studies including <u>quasi-randomized trials, controlled before-after studies (CBAs) and interrupted time series studies (ITSS).</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Observational studies including <u>cohort, case-control and cross-sectional studies.</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Participants and setting	<u>HIV-1 infected adults</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<u>Non pregnant</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Low or middle income country setting (as listed in the <i>World Bank Group's classification of countries by income groups (see Annexe)</i>)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Naive to ART (if initiating treatment at T0) or under ART < 1 year	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Types of comparison	Undernourished vs well nourished (according to a predefined cutoff value)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Types of outcome measures	Primary outcome:				
	1) CD4 counts or CD4%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2) Change in CD4 counts between timepoints	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Secondary outcomes:				
	1) Immune failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2) Time to immune failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Types of determinants	Body composition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	1) Weight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2) BMI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	3) MUAC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	4) Skinfold	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	5) BIA (bioelectrical impedance)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Inflammation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	1) Albumin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2) Hemoglobin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

	3) CRP	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Results	Associative measure between one or more dichotomized/categorized nutritional markers OR weight change AND immune response	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
INCLUDE <input type="checkbox"/> EXCLUDE <input type="checkbox"/> UNCERTAIN <input type="checkbox"/>			
Reason for exclusion			
Notes:			

DO NOT PROCEED IF STUDY EXCLUDED FROM REVIEW

Characteristics of included studies

Methods

	Descriptions as stated in report/paper	Location in text or source (<i>pg & ¶/fig/table</i>)
Objectives		
Design		
Unit of observation		
Start date		
End date		

Duration of participation <i>(from recruitment to last follow-up)</i>		
Ethical approval needed/ obtained for study	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unclear	
Notes:		

Participants and immune response

	Description	Location in text or source (<i>pg & ¶/fig/table</i>)
Population description <i>(from which study participants were drawn)</i>		
Setting and context <i>(For example, as part of a RCT of nutritional intervention, ...)</i>		
Inclusion criterions		
Exclusion criterions		
Method of recruitment of participants <i>(e.g. phone, mail, clinic patients)</i>		
Informed consent obtained	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unclear/ not indicated	

Total no. of subjects	Included: _____ Excluded: _____	
Participation agreement (%)		
Clusters <i>(if applicable, no., type, no. people per cluster)</i>		
Baseline discrepancies <i>(if applicable)</i>		
Lost to follow-up	How many: _____ Characteristics of those LTFU: _____ _____ Statistically different from those who remained? Yes <input type="checkbox"/> No <input type="checkbox"/> Not indicated <input type="checkbox"/>	
Mortality	How many: _____ Characteristics of those LTFU: _____ _____ Statistically different from those who remained? Yes <input type="checkbox"/> No <input type="checkbox"/> Not indicated <input type="checkbox"/>	
Withdrawals	How many: _____ Characteristics of those LTFU: _____ _____ Statistically different from those who remained? Yes <input type="checkbox"/> No <input type="checkbox"/> Not indicated <input type="checkbox"/>	
Number of total person-years (if applicable)		
Missing data		

<p>Outcome(s)</p> <p>Definition, measure & classification</p>	<p><u>Primary outcome</u></p> <p>1) Absolute CD4 counts 2) Relative CD4 counts (<i>% change in CD4 between timepoints</i>)</p> <p><i>Indicate if used as continuous or categorized (indicate cut-off points used by the authors):</i></p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Method used to measure CD4 at each time points:</p> <p>1) FACS counter <input type="checkbox"/></p> <p>2) Other</p> <p>_____</p> <p>_____</p>	
	<p><u>Secondary outcomes</u></p> <p>1) Immune failure 2) Time to immune failure</p> <p>Operational definition of immune failure used by the authors:</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>Determinants</p>	<p>Body composition</p> <p>Weight</p> <p><u>Methods of assessment</u></p> <p>1. Was the weight auto-reported or measured by an expert</p> <p>Auto-reported <input type="checkbox"/> Uncertain <input type="checkbox"/></p> <p>Measured by expert <input type="checkbox"/> Not indicated <input type="checkbox"/></p> <p><i>Comments:</i> _____</p>	

BMI

Indicate cut-off points used to categorized this variable

Methods of assessment

1. Did the observer receive a formal training in BMI measurement

- Yes Uncertain
No Not indicated

Comments: _____

2. If longitudinal measurements: Did the same observer take all measurements for a same patient

- Yes Uncertain
No Not indicated

Comments: _____

MUAC (mid upper arm circumference)

Indicate cut-off points used to categorized this variable

Methods of assessment

1. Did the observer receive a formal training in MUAC measurement

- Yes Uncertain
No Not indicated

Comments: _____

2. If longitudinal measurements: Did the same observer take all measurements for a same patient

- Yes Uncertain
No Not indicated

Comments: _____

3. At each timepoint, was the measurement repeated 2-3 times and mean value measured

- Yes Uncertain
No Not indicated

Comments: _____

Skinfold

Indicate cut-off values used to categorized this variable

Methods of assessment

1. Specify anatomical location(s): _____

2. Which brand of Calliper were used

Brand: _____

Not specified

3. Did the observer receive a formal training in SK measurement

Yes Uncertain

No Not indicated

Comments: _____

3. Was the measurement technique calibrated by a second expert in the course of the study

Yes Uncertain

No Not indicated

Comments: _____

4. If longitudinal measurements: Did the same observer take all measurements for a same patient

Yes Uncertain

No Not indicated

Comments: _____

5. At each time point, was the measurement repeated 2-3 times and mean value measured

Yes Uncertain

No Not indicated

Comments: _____

BIA/BIS (bioelectrical impedance)

Indicate which compartments were measured/estimated using this technique

- BCM
- TBW
- FFM
- ICW
- ECW
- Phase angle

Methods of assessment

1. Were the following factors evaluated and/or taken into account

- Consumption of water Yes No
- Consumption of food Yes No
- Physical activity in hours
 before measure Yes No
- Ambient temperature Yes No
- Medical conditions
 affecting electrolytes Yes No

2. What was the position of the electrodes

- Hand-to-foot
- Hand-to-hand
- Foot-to-foot
- Not specified

3. Which BIA/BIS equation was used

Not specified

4. If applicable, is the predictive equation used validated for the study population

- Yes, specified by the authors
- No, specified by the authors
- Not specified

Inflammatory markers

Albumin

Indicate cut-off values used to categorized this variable

Methods of assessment

1. Was the serum sample

- Fresh
- Frozen
- Not indicated

2. Technique used to measure level of albumin

	<p>Haemoglobin <i>Indicate cut-off values used to categorized this variable</i></p> <hr/> <hr/> <hr/> <p><u>Methods of assessment</u> 1. Source of blood Capillary <input type="checkbox"/> Venous <input type="checkbox"/> Not indicated <input type="checkbox"/></p> <p>2. Assessment method HemoCue <input type="checkbox"/> Cyanmethemoglobin <input type="checkbox"/> Other <input type="checkbox"/> Specify: _____ Not indicated <input type="checkbox"/></p>	
	<p>CRP <i>Indicate cut-off values used to categorized this variable</i></p> <hr/> <hr/> <hr/> <p><u>Methods of assessment</u> 1. Type of test Low Sensitivity <input type="checkbox"/> High Sensitivity <input type="checkbox"/> Not indicated <input type="checkbox"/></p>	
<p>Confounding factors/ effect modifiers accounted for in the analyses</p>		
<p>Results <i>(specify, e.g. OR, RR, IRR)</i> <i>(specify the reference group)</i></p>	<p>Crude</p>	
	<p>Adjusted</p>	
<p>Reported limitations of study's methods/results</p>		

Key conclusions (<i>as stated in report/paper</i>)		
Scientific quality (specify tool, e.g. modified EPHPP tool) authors		
Notes:		

Other information

Study funding sources (<i>including role of funders</i>)		
Possible conflicts of interest (<i>for study authors</i>)		
References of relevant studies		
Correspondence required for further study information (<i>from whom, what and when</i>)		
Notes:		

Appendix

The World Bank Group's classification of countries by income groups

Available from:

<http://data.worldbank.org/about/country-classifications/country-and-lending-groups>

Low-income economies

Afghanistan	Gambia, The	Mozambique
Bangladesh	Guinea	Myanmar
Benin	Guinea-Bissau	Nepal
Burkina Faso	Haiti	Niger
Burundi	Kenya	Rwanda
Cambodia	Korea, Dem Rep.	Sierra Leone
Central African Republic	Kyrgyz Republic	Somalia
Chad	Liberia	Tajikistan
Comoros	Madagascar	Tanzania
Congo, Dem. Rep	Malawi	Togo
Eritrea	Mali	Uganda
Ethiopia	Mauritania	Zimbabwe

Lower-middle-income economies

Albania	Indonesia	Samoa
Armenia	India	São Tomé and Príncipe
Belize	Iraq	Senegal
Bhutan	Kiribati	Solomon Islands
Bolivia	Kosovo	South Sudan
Cameroon	Lao PDR	Sri Lanka
Cape Verde	Lesotho	Sudan
Congo, Rep.	Marshall Islands	Swaziland
Côte d'Ivoire	Micronesia, Fed. Sts.	Syrian Arab Republic
Djibouti	Moldova	Timor-Leste
Egypt, Arab Rep.	Mongolia	Tonga
El Salvador	Morocco	Ukraine
Fiji	Nicaragua	Uzbekistan
Georgia	Nigeria	Vanuatu
Ghana	Pakistan	Vietnam
Guatemala	Papua New Guinea	West Bank and Gaza
Guyana	Paraguay	Yemen, Rep.
Honduras	Philippines	Zambia

Upper-middle-income economies

Angola
Algeria
American Samoa
Antigua and Barbuda
Argentina
Azerbaijan
Belarus
Bosnia and Herzegovina
Botswana
Brazil
Bulgaria
Chile
China
Colombia
Costa Rica
Cuba
Dominica
Dominican Republic

Ecuador
Gabon
Grenada
Iran, Islamic Rep.
Jamaica
Jordan
Kazakhstan
Latvia
Lebanon
Libya
Lithuania
Macedonia, FYR
Malaysia
Maldives
Mauritius
Mexico
Montenegro
Namibia

Palau
Panama
Peru
Romania
Russian Federation
Serbia
Seychelles
South Africa
St. Lucia
St. Vincent and the Grenadines
Suriname
Thailand
Tunisia
Turkey
Turkmenistan
Tuvalu
Uruguay
Venezuela, RB