# REVIEW OF INDIVIDUAL STUDIES PROTOCOL VERSION 4.0 (May 2019)

## **PURPOSE STATEMENT**

What Works Clearinghouse<sup>™</sup> (WWC) reviews are designed to provide education practitioners and policymakers with timely and objective assessments of the quality of research evidence. WWC reviews focus primarily on studies of the effectiveness of education or school-based interventions serving students in early childhood education through 12th grade, as well as students in postsecondary settings. However, in some instances, they might focus on studies of interventions serving other groups, such as teachers or other school leaders.

All WWC reviews are governed by a review protocol that describes the procedures that will be followed when conducting the review. When a study has been identified through a literature search defined by a WWC protocol, such as a topic area protocol for preparing WWC intervention reports or a protocol for preparing a WWC practice guide, the study review is guided by that protocol. However, the WWC also reviews studies that have been identified through other means and that may not fall under the umbrella of a more specific review protocol. This protocol guides those reviews of individual studies. This review-specific protocol is used in conjunction with the *WWC Procedures and Standards Handbooks* (version 4.0).

## **ELIGIBILITY CRITERIA**

## **Eligible Populations**

To be eligible for review under this protocol, the study must examine the effectiveness of an intervention administered to:

- students and other learners in early childhood education through postsecondary education, including learners of any age from infancy through adulthood;
- teachers and related educators; or
- school leaders.

# **Eligible Interventions**

The study must examine an educationally relevant or school-based intervention. The WWC defines the term "intervention" broadly, and this term can include education practices, products, programs, and policies. Therefore, the following types of interventions may be included:

• **Practices.** Education practices are discrete, clearly defined activities focused on improving student learning and related outcomes. Practices may be used with a wide range of participants to address a wide range of learning goals – or they may be targeted to address a specific learning goal, skill, or population.

• **Products.** Education products are "branded" or commercial interventions such as curricula or software. Products may be used as the primary instructional tool in the classroom or to supplement classroom material with differentiated instruction, remediation, or enrichment. Products may possess a trademark or copyright and may be

supported by a developer who provides technical assistance or sells or distributes the intervention.

• **Programs.** Education programs are combinations of practices or products that are intended to either directly or indirectly improve the outcomes of students. These can include, for example, after-school programs and mentoring programs.

• **Policies.** Education policies involve structural changes that are intended to either directly or indirectly improve the outcomes of students. Examples of education policies include modifying the academic calendar and changing the number of credits required for graduation.

# **Eligible Research**

The *WWC Standards Handbook (version 4.0)* lists and describes the types of research reviewed by the WWC. Under this protocol, the following additional parameters define the scope of research studies to be included:

• *Timeframe*. Studies must have been released or made public within the 20 years preceding the year of the review—for example, in 1999 or later for reviews occurring in 2019.

• Language. The study must be available in English to be included in the review.

• *Location.* The study must include students in the United States, in its territories or tribal entities, at U.S. military bases overseas, or in Organisation for Economic Co-operation and Development (OECD) member countries in which English is the primary or most commonly used language; that is, Australia, Canada, Ireland, New Zealand, and the United Kingdom.

# **Eligible Outcomes**

Using this protocol, the WWC reviews research findings that could be valuable to policy makers, administrators, practitioners, or parents who are deciding whether a specific intervention should be adopted or scaled up. Outcomes drawn from the table below are considered eligible outcomes for reviews conducted under this protocol.

Domain	Related Protocol	Description
Standardized Measures of Academic Readiness, Knowledge, or Skills		
Cognition	Early Childhood	Memory, problem solving, cognitive processing and
	Education, version	flexibility, general knowledge, and IQ
	3.0	
Communication/	Intellectual Disability,	Ability to communicate with other people; ability to
language	version 3.1	engage in conversation, request help, or follow
competencies		prompts or instructions. The use of communication
		devices is allowed for these competencies. Note
		that outcomes for English Learners are included in
		the "English language proficiency" domain.

Exhibit 1—Outcome	Domains
-------------------	---------

Domain	Related Protocol	Description		
English language	English Learners,	Vocabulary including receptive vocabulary,		
proficiency	version 4.0	expressive vocabulary, and academic language; oral		
		language including listening and speaking skills;		
		listening comprehension; and grammar including		
		syntax and morphology in spoken or written		
		language. Note that this domain is for majority		
		English Learner samples.		
Alphabetics	Adolescent Literacy,	Letter identification, phonemic awareness, phonics,		
	version 4.0	phonological awareness, print awareness		
Comprehension	Adolescent Literacy,	Vocabulary development and reading		
	version 4.0	comprehension. Note that the "English language		
		proficiency" domain should be used for majority		
		English Learner samples.		
Reading fluency	Adolescent Literacy,	Reading text accurately, automatically, and with		
	version 4.0	expression		
Writing	Adolescent Literacy,	Using rules of standard English language, such as		
conventions	version 4.0	word usage, sentence structure, or grammar		
Writing	Adolescent Literacy,	Measures of writing quantity, such as counts of		
productivity	version 4.0	written words, sentences, or ideas		
Writing quality	Adolescent Literacy,	Writing effective, clear, well-organized text		
	version 4.0			
General literacy	Adolescent Literacy,	Content in two or more of the above literacy		
achievement	version 4.0	domains		
Algebra	Secondary	Ability to solve, graph, or write equations, systems		
	Mathematics, version	of equations, and inequalities, as well as functions,		
	3.1	exponents, polynomials, factoring, and quadratic		
		equations		
Data analysis,	Primary	Collecting, organizing, and displaying data to answer		
statistics, and	Mathematics, version	questions, as well as statistical methods to analyze		
probability	4.0	data, making inferences and predictions based on		
		data, and probability		
Geometry and	Primary	Two-dimensional and three-dimensional geometric		
measurement	Mathematics, version	shapes and understanding properties, composition,		
	4.0	and geometric relationships, including visualization,		
		spatial reasoning, and geometric modeling, as well		
		as understanding the attributes, units, systems, and		
		processes of measurement, and applying		
		techniques, tools, and formulas to determine		
		measurements		

Domain	Related Protocol	Description		
Number and	Primary	Understanding numbers and integers, such as		
operations	Mathematics, version	subitizing, estimation, number order, number		
	4.0	combinations, counting, comparisons, operations,		
		computing fluently, representing fractions and		
		ratios and understanding the base-ten number		
		system and fractions		
Calculus	Secondary	Differential calculus (concerning rates of change		
	Mathematics, version	and slopes of curves) or integral calculus		
	3.1	(concerning accumulation of quantities and the		
		areas under and between curves)		
Trigonometry/	Secondary	Trigonometry topics such as relationships involving		
precalculus	Mathematics, version	lengths and angles of triangles, and/or precalculus		
	3.1	topics such as functions, complex numbers, vectors,		
		and matrices		
General	Primary	Content in two or more of the above mathematics		
mathematics	Mathematics, version	domains, as well as tests of mathematical		
achievement	4.0, and Secondary	understanding, procedures, and problem solving		
	Mathematics, version	designed to measure more than one content area		
	3.1			
Life sciences	Primary Science,	The structures and functions of living things at		
	version 4.0	different scales; growth, development, and		
		reproduction of organisms; information processing		
		and behavior in organisms; matter and energy		
		transfer in living things and ecosystems; inheritance		
		of and variation in traits; natural selection and		
		adaptation; evidence of common ancestry;		
Dhusical sciences		blodiversity		
Physical sciences	Primary Science,	force motion and interactions of forces operation		
	version 4.0	force, motion, and interactions of forces; energy		
		and energy transfer and conservation; relationship		
		between energy and forces; properties of waves;		
Earth/space	Drimary Science	The structures, properties and materials of Earth:		
scioncos	vorsion 4.0	toctonics: Earth's place in the colar system and the		
sciences	Version 4.0	universe: changes in Earth over time: water		
		woathor and climato: onorgy in Earth systems: high		
		geology		
General science	Primary Science	Content in two or more of the above science		
achievement	version 4 0	domains as well as knowledge of science practices		
		such as forming hypotheses and making predictions		
		control of variables and planning and conducting		
		experiments and observations		

Domain	Related Protocol	Description	
General social	Teacher Excellence,	Outcomes in social studies disciplines, such as one	
studies	version 4.0	or more of civics, economics, geography, history,	
achievement		and world cultures	
Primary school	Supportive Learning	Academic measures based on student test scores	
academic	Environments,	across multiple subjects, including at least two of	
achievement <sup>1</sup>	version 4.0	literacy, mathematics, science, and social studies	
Secondary	Transition to College,	Mastering academic content, as measured by	
school academic	version 4.0	standardized achievement tests such as the ACT and	
achievement <sup>2</sup>		SAT and state-mandated tests, or by secondary	
		school grade point averages (if the formula is	
		specified). Note that individual course grades or	
		exam scores from secondary school courses are not	
		eligible under this domain.	
College	Transition to College,	Mastering academic content, as measured by the	
academic	version 4.0	final grade in a single college-level course, the final	
achievement		exam score in a single college-level course, grade	
		point average in college-level courses (if the	
		formula is specified), or scores on professional	
		exams such as the GRE. Note that technical skills	
		proficiency is a separate domain.	
Technical skills	Postsecondary CTE,	Technical skills at the occupation level, measured by	
proficiency	version 4.0	assessments aligned with industry-recognized	
		standards	
Educational Attainment, Short-Term and Long-Term <sup>3</sup>			
Completing high	Transition to College,	Whether the student has earned a high school	
school	version 4.0	diploma or a recognized equivalent, such as	
		obtaining passing scores on a state-approved high	
		school equivalency test	
College degree	Transition to College,	Completion of a postsecondary degree, certificate,	
attainment	version 4.0	or program. Note that industry-recognized	
		certificates are in a separate domain.	

<sup>&</sup>lt;sup>1</sup> "Primary school academic achievement" pertains to students in grades K-5, or to learners ages 5 through 11. This domain should only be selected for test score measures that *do not* correspond with a more specific domain. <sup>2</sup> "Secondary school academic achievement" pertains to students in grades 6-12, or to learners age 12 and above who have not yet completed a high school diploma or a recognized equivalent, or who have completed a high school diploma or a recognized equivalent, or who have completed a high school diploma or a recognized equivalent, or school academic achievement, but either are English Learners or lack basic skills such as literacy. This domain should only be selected for test score measures that *do not* correspond with a more specific domain. <sup>3</sup> If educational attainment is reported for multiple time periods, separate domains are distinguished for short-term educational attainment, measured closest to the end of the receipt of the intervention, and long-term attainment, measured at the longest follow-up after short-term attainment outcomes. Educational attainment outcomes at all other time points are considered supplementary findings.

Domain	Related Protocol	Description		
Industry-	Postsecondary CTE,	Completion of an industry-recognized credential,		
recognized	version 4.0	certificate, or license		
credential,				
certificate, or				
license				
	School Att	endance and Progress		
Secondary	Transition to College,	Attendance rates or absenteeism at school, such as		
school <sup>4</sup>	version 4.0	the number or proportion of days in attendance,		
attendance		the proportion of students with excessive absences,		
		or referrals for truancy		
Staying in	Transition to College,	Whether the student has dropped out of school or		
secondary	version 4.0	is still enrolled		
school <sup>4</sup>				
Progressing in	Transition to College,	Number of Carnegie units or credits the student has		
secondary	version 4.0	earned, whether the student was promoted to the		
school <sup>4</sup> or adult		next grade, or highest grade completed		
education				
College	Transition to College,	Student progress on preparedness to enter		
readiness	version 4.0	postsecondary education, such as meeting specific		
		minimal coursework requirements for entry into		
		postsecondary institutions <sup>5</sup> , completing other		
		required key milestones such as applying for college		
		or for student aid, and completing college		
		requirements in high school		
College	Transition to College,	Applying to, enrolling, and attending a		
enrollment	version 4.0	postsecondary institution <sup>5</sup> , such as actual		
		enrollment in college, number or selectivity of		
		admitted institutions, enrollment by institution		
		type, full-time vs. part-time enrollment, and		
		immediate vs. delayed enrollment		
College	Transition to College,	Attendance rates or absenteeism at a		
attendance	version 4.0	postsecondary institution <sup>5</sup> , such as the number or		
		proportion of days in attendance, or the proportion		
		of students with excessive absences		
Progressing in	Postsecondary	Complete required development coursework,		
developmental	Developmental	grades earned in developmental courses, or		
education	Education, version	completed vs. did not complete the first college-		
	4.0	level course in which remediation was needed		

<sup>&</sup>lt;sup>4</sup> For the school attendance and progress domains, "secondary school" pertains to students in grades 6-12, but not to students in adult education programs.

<sup>&</sup>lt;sup>5</sup> "Postsecondary institution" includes universities, colleges, community colleges, and trade schools.

Domain	Related Protocol	Description		
Progressing in	Transition to College,	Progress toward the completion of a postsecondary		
college	version 4.0	degree, certificate, or program, such as number of		
		college-level credits earned, number of terms of		
		continuous enrollment, enrolled vs. did not enroll		
		the next semester, or completed a course that was		
		the focus of the intervention. Note that non-college		
		level credits, such as developmental credits, are not		
		eligible under this domain.		
	Social-Emotion	nal Learning and Behavior		
Independent	Intellectual Disability,	Ability to independently perform daily activities in		
living skills	version 3.1	the home, community, or vocational/ occupational		
		settings, such as cooking, dressing, eating, using the		
		toilet, cleaning, organizing office supplies, using		
		office equipment, crossing the street, using a bank,		
		and purchasing items. Note that this domain		
		includes financial literacy, health literacy, and		
		computer literacy.		
Self-	Intellectual Disability,	Abilities that help learners set goals and take		
determination	version 3.1	actions to achieve goals, such as goal setting,		
		problem solving, decision making, self-advocacy,		
		and choice making		
Student social	Supportive Learning	Student behaviors that primarily involve		
interaction	Environments,	interactions with others, such as students or		
	version 4.0	teachers, or reflect attempts at social interactions		
Observed	Supportive Learning	Includes observed or recordable student behaviors		
individual	Environments,	that primarily reflect individual choices and have		
behavior	version 4.0	individual consequences for the student, sometimes		
		referred to as externalizing behaviors; outcomes in		
		this domain do not require interactions with others		
Student	Supportive Learning	Includes student behaviors and self-ratings that are		
emotional status	Environments,	primarily focused inward and reflect a student's		
	version 4.0	emotional state, sometimes referred to as		
		emotional or internalizing behaviors; measures may		
		be based on a diagnosis or classification, student		
		self-report, teacher observation, or results from an		
		assessment scale		
Student	Supportive Learning	Behaviors that are typically only observed during		
engagement in	Environments,	school and often reflect school connectedness, such		
school	version 4.0	as school suspensions, disrupting class, following		
		school rules, coming to class prepared, staying on		
		task, and participating in school activities		
School Environment Outcomes				

Domain	Related Protocol	Description	
School climate	Supportive Learning	Observations or assessments of the school	
	Environments,	environment, the quality of interpersonal	
	version 4.0	relationships within the school, and other factors	
		that describe the character of a school	
School equity	Supportive Learning	Measures of the degree of equity or assessments of	
	Environments,	equity within classrooms or schools, such as	
	version 4.0	disproportionality assessments or student or staff	
		surveys of their perceptions of equity	
	Labor Market Outcor	nes, Short-Term and Long-Term <sup>6</sup>	
Employment	Postsecondary CTE,	Indicator of any paid employment, number of	
	version 4.0	months or quarters employed, or number of hours	
		worked in an average week. Note that these	
		outcomes must be defined over a specific period,	
		for example, for the previous quarter.	
Earnings	Postsecondary CTE,	Income received from work over a specific period.	
	version 4.0	Note that earnings must be defined for those not	
		employed as well those employed.	
	Теа	cher Outcomes	
Educator	Supportive Learning	Attempts to influence problematic student behavior	
discipline	Environments,	by responding to students' actions with	
practice	version 4.0	consequences or rewards, such as office discipline	
		referrals or discipline practices measured by teacher	
		self-reports, classroom observations, or student	
		surveys	
Instructional	Teacher Excellence,	Quality of instruction provided by teachers and	
practice	version 4.0	their application of content knowledge or	
		pedagogical content knowledge as demonstrated by	
		their actions in the classroom, based on rubrics	
		assessed by school principals, supervisors, or	
		trained evaluators, or based on surveys	
		administered to students	
Teacher	Teacher Excellence,	Includes outcomes that indicate the number or	
attendance	version 4.0	percentage of eligible work days for which the	
		teacher is present	
Teacher	Teacher Excellence,	Includes outcomes that measure the percentage of	
retention at the	version 4.0	teachers who return to work as a teacher in the	
school		same school from year to year	

<sup>&</sup>lt;sup>6</sup> If labor market outcomes are reported for multiple time periods, separate domains are distinguished for short-term labor market outcomes, measured closest to the end of the receipt of the intervention, and long-term labor market outcomes, measured at the longest follow-up after short-term labor market outcomes. Labor market outcomes at all other time points are considered supplementary findings.

Domain	Related Protocol	Description	
Teacher	Teacher Excellence,	Includes outcomes that measure the percentage of	
retention in the	version 4.0	teachers who return to work as a teacher in the	
school district		same school district from year to year	
Teacher	Teacher Excellence,	Includes outcomes that measure the percentage of	
retention in the	version 4.0	teachers who return to work as a teacher in the	
state		same state from year to year, or who return teach	
		in certain kinds of settings, such as in special	
		education or in economically disadvantaged districts	
Teacher	Teacher Excellence,	Includes outcomes that measure the percentage of	
retention in the	version 4.0	teachers who return to work as a teacher from year	
profession		to year, regardless of location	
School Leader Outcomes			
Leadership	School Leaders,	Includes outcomes that measure the quality of	
practice	version 4.0	leadership ability demonstrated by the school	
		leader, as measured from rubrics assessed by	
		supervisor or from surveys of school staff, parents,	
		or students	
School leader	School Leaders,	Includes outcomes that measure the percentage of	
retention at the	version 4.0	school leaders who return to work as a school	
school		leader in the same school from year to year	
School leader	School Leaders,	Includes outcomes that measure the percentage of	
retention in the	version 4.0	school leaders who return to work as a school	
school district		leader in the same school district from year to year	
School leader	School Leaders,	Includes outcomes that measure the percentage of	
retention in the	version 4.0	school leaders who return to work as a school	
state		leader in the same state from year to year, or who	
		return to lead schools in certain kinds of settings,	
		such as in economically disadvantaged districts	
School leader	School Leaders,	Includes outcomes that measure the percentage of	
retention in the	version 4.0	school leaders who return to work as a school	
profession		leader from year to year, regardless of location	

The *WWC Standards Handbook (version 4.0)* discusses the types of outcomes, criteria the outcome must meet, and how outcomes are reported. See Section IV: Non-Design Components.

# **Findings to Review**

	Main Findings	Supplementary Findings
<b>Research question</b>	Confirmatory	Exploratory
Sample	Full sample	Subgroups
Measure	Composite	Subtests, Subscales
Time period	Measurement closest to the end of intervention <sup>7</sup> , except educational attainment and labor market outcomes are also reported in separate domains at the longest follow-up	Other time points
Analytic methods	Benchmark analyses	Sensitivity analyses

#### Exhibit 2—Distinguishing Main Findings and Supplementary Findings

A study's rating will be determined by the highest rating achieved across all findings eligible for review, although the *WWC Procedures Handbook (version 4.0)*, p. 18, articulates an exception for situations in which separate subscales of the same measure meet standards but the composite measure does not. Using Exhibits 1 and 2, review team leadership may apply restrictions on eligible *supplementary* findings to narrow the focus of reviews for a given effort. For example, when conducting reviews for a grant competition, review team leadership can indicate that no supplementary findings should be examined, or only a subset of them.

#### **DESIGN STANDARDS**

Eligible studies are assessed, as applicable, against WWC group design standards, regression discontinuity design standards, or pilot single-case design standards, as described in the WWC Standards Handbook (version 4.0); see Section II, Section III, and Appendix A. In addition, the WWC Standards Handbook (version 4.0) requires additional input on sample attrition, baseline equivalence, statistical adjustments for baseline equivalence, risk of bias for cluster-level assignment studies, and baseline equivalence for cluster-level assignment studies.

# **Sample Attrition**

The default attrition boundary for a study reviewed under this protocol is the *optimistic* boundary. This boundary was selected because it is the most common boundary used across WWC review protocols, suggesting that in typical education studies, attrition is not thought to be strongly related to intervention status. The lead methodologist, in consultation with a content expert, may choose the cautious boundary if it is justified for a particular review, as in the case of a study with suspected endogenous attrition. If this decision is made, the rationale for it will be documented in the study review guide.

# **Baseline Equivalence**

For student outcomes, baseline equivalence of the intervention and comparison groups in the analytic sample should be demonstrated on a direct pretest in the same domain as the outcome. If a pretest in the same domain as the outcome was not given, or does not exist for

<sup>&</sup>lt;sup>7</sup> If the intervention had not ended when study data were collected, the time period closest to the end of the intervention is defined as the most recent time period reported in the study.

certain outcomes, then the baseline equivalence of the intervention and comparison groups in the analytic sample should be demonstrated on at least two of the following:

(a) a standardized measure of academic readiness, knowledge, or skills;
(b) student GPA (grades 6-12 or at the postsecondary or adult education level only); and
(c) socio-economic status; for example, student free- and reduced-price lunch status, family income, or parent's education.

For teacher outcomes, baseline equivalence should be established based on Exhibit 4 from the *Teacher Excellence* protocol, version 4.0. For school leader outcomes, baseline equivalence should be established based on Exhibit 5 from the *School Leadership* protocol, version 4.0.

# Statistical Adjustment for Baseline Equivalence

If a pretest is available for an outcome and the difference between conditions is shown to be within the range that requires statistical adjustment, the adjustment is needed only for that outcome. For outcomes that do not have a pretest, an adjustment is necessary only for required covariates, such as measures of academic achievement and socio-economic status, that are shown to be within the range that requires statistical adjustment.

## **Risk of Bias for Cluster-Level Assignment Studies**

The WWC Standards Handbook (version 4.0) requires that review team leadership make judgments about two aspects of studies that are unique to cluster-level assignment studies: (a) the risk of bias due to individuals who entered the clusters after random assignment and who were included in the analytic sample, and (b) the risk of bias due to non-response of individuals in the reference sample.

The WWC defines a *joiner* as any student who enters a cluster after the results of random assignment are known to any individual who could plausibly influence a student's placement into a cluster, such as parents, students, teachers, principals, or other school staff. For this review protocol, we will consider a student to be an *early joiner* if they enter a cluster in the six weeks after the results of random assignment are known, or, in cases where this is unclear or random assignment occurred during the summer, six weeks after the start of the school year. *Late joiners* are those that enter clusters after the end of the early period. This review protocol specifies that, as a rule, for cluster RCTs where the unit of assignment is *smaller* than a school—such as groups of classrooms or small groups of students within classrooms—*both early joiners and late joiners in the analytic sample pose a risk of bias.* For cluster RCTs of interventions where the unit of assignment is a school or larger unit, *whether early joiners or late joiners in the analytic sample pose a risk of bias depends on the judgment of review team leadership informed by available details about the intervention, such as whether the intervention is expected to influence school enrollment or placement decisions.* 

When an intervention and unit of assignment in a cluster RCT do not fall into a category described above, review team leadership has discretion to decide which joiners pose a risk of bias, and whether there is a risk of bias due to non-response of individuals in the reference

sample. Review teams should use the guidance on pp. 23-31 of the *WWC Standards Handbook* (version 4.0) to inform these judgments and should document their reasoning in the review.

# **Baseline Equivalence for Cluster-Level Assignment Studies**

In general, considerations for satisfying baseline equivalence of individuals also apply to satisfying baseline equivalence of clusters. In particular, baseline equivalence of clusters in the intervention and comparison groups must be satisfied by one of the same baseline measures listed above for assessing baseline equivalence of individuals and the same statistical adjustment requirements apply.

Under this review protocol, any of the following three samples can be used to satisfy the baseline equivalence requirement for the analytic sample of clusters, provided the review team leadership determines that the baseline data are representative of the individuals who were in the clusters at the time the follow-up data were collected, consistent with the *WWC Standards Handbook (version 4.0)*:

- (a) The analytic sample of individuals from any pre-intervention time period.
- (b) Individuals from the same cohort as the individuals in the analytic sample, within the same clusters at the time that clusters were assigned to conditions or up to one year prior to when clusters were assigned to conditions.
- (c) Individuals from the previous cohort and in the same grade as individuals in the analytic sample, within the same clusters.

If authors provide baseline information at multiple time periods, a reviewer should assess baseline equivalence using the information collected at the latest period before the start of the intervention. If authors provide baseline information for multiple samples, a reviewer should assess baseline equivalence using the sample listed first in the list above—that is, (a) should be used if available, then (b), and then (c). If authors provide baseline information for multiple samples across multiple time periods, the reviewer should consult review team leadership to determine which information to prioritize.

When a study examines the effectiveness of an intervention in multiple time periods, the sample used to satisfy baseline equivalence of clusters in the initial time period also satisfies baseline equivalence of clusters in the later time periods, so long as the outcome data are representative of the individuals in the clusters.

# WWC ADJUSTMENTS

The WWC Procedures Handbook (version 4.0) discusses the types of adjustments made by the WWC in Section VI: Reporting on Findings (pp. 15-19). For characterizing the statistical significance of findings from a study that meets WWC standards, the WWC will conduct the multiple comparison correction separately for main findings within the same outcome domain, but not across domains or for any supplementary findings.