

February 2016 - Update of AHRQ Quality Indicators™ Software for Windows and SAS Version 5.0

Version 5.0 of the AHRQ Quality Indicators (QI) software, released March 2015 has been updated with versions 5.0.1, 5.0.2 and most recently with version 5.0.3. This notification provides a summary of all changes since the release of version 5.0. A summary of the indicators impacted and changed by module and software version are indicated in [Table 1](#).

Software Updates:

If you downloaded the software from the AHRQ QI website (www.qualityindicators.ahrq.gov) **BETWEEN April 23, 2015 and February 12, 2016**, your software may produce

- incorrect risk-adjusted and smoothed rates for the Prevention Quality Indicators (PQIs),
- incorrect smoothed rates for the area-level Inpatient Quality Indicators (IQIs), and
- incorrect risk-adjusted and smoothed rates for area-level Pediatric Quality Indicators (PDIs)

If you downloaded the software from the AHRQ QI website (www.qualityindicators.ahrq.gov) **BEFORE April 23, 2015** your software may produce

- incorrect smoothed rates and standard errors for all provider-level risk-adjusted Patient Safety Indicators (PSIs)
- incorrect PSI-90 scores
- incorrect smoothed rates and standard errors for all provider-level risk-adjusted Inpatient Quality Indicators (IQIs)
- incorrect IQI-90 and IQI-91 scores
- incorrect smoothed rates and standard errors for all provider-level risk-adjusted Pediatric Quality Indicators (PDIs)
- incorrect PDI 19 scores

Version 5.0.3 provides updates to the PQI software and incorporates all previous version 5.0 updates to all AHRQ SAS QI software modules and WinQI software.

Updates included the following for each module respectively:

Prevention Quality Indicators

- Corrected the embedded population reference rates and embedded parameter estimates used to derive PQI expected rates, risk-adjusted rates and associated standard errors, and the smoothed rates and associated standard errors (corrected in version 5.0.3).
- Corrected the embedded signal variance estimates to allow users to calculate PQI smoothed rates and associated standard errors. Updated MSXPQA50.txt. (corrected in version 5.0.2)

Patient Safety Indicators (PSIs)

- Corrected the embedded signal variance estimates for PSI 90. Updated MSXPSC50.txt and MXPSC50.txt available. (corrected in version 5.0.1)

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- Corrected the shrinkage weight formula in PSSASP3.SAS program used in calculating smoothed rates and associated standard errors for all provider-level risk-adjusted PSIs. Updated PSSASP3.SAS program available. (corrected in version 5.0.1)

Inpatient Quality Indicators (IQIs)

- Corrected the embedded signal variance estimates for IQI composites. (corrected in version 5.0.1)
- Corrected the shrinkage weight formula in PSSASP3.SAS program used in calculating smoothed rates and associated standard errors for all provider-level risk-adjusted IQIs. Updated IQSASP3.SAS program available. (corrected in version 5.0.1)
- Corrected the embedded signal variance estimates used in areal-level IQI smoothed rates and associated standard errors. Updated MSXQA50.txt and MXQA50.txt. (corrected in version 5.0.2)

Pediatric Quality Indicators

- Corrected the embedded signal variance estimates for PDI 19. Updated MSXPDC50.txt and MXPDC50.txt available. (corrected in version 5.0.1)
- Corrected the shrinkage weight formula in the PDSASP3.SAS program used in calculating smoothed rates and associated standard errors for all provider-level risk-adjusted PSIs. Updated PDSASP3.SAS program available. (corrected in version 5.0.1)
- Corrected the embedded reference population file for all area-level PDIs. Updated COVPDA50.txt and CVPDA50.txt. (corrected in version 5.0.2)
- Corrected embedded signal variance estimates used in areal-level PDI smoothed rates and associated standard errors. Updated MSXPDA50.txt and MXPDA50.txt (corrected in version 5.0.2)

If you have used the PQIs, PSIs, IQIs, or PDIs, or plan to do so in the future, you should download and install the updated v5.0.3 software (available for SAS and Windows). If you have additional questions, please contact AHRQ QI support (QIsupport@ahrq.hhs.gov).

Table 1. Summary of v5.0 Releases by Module

Module	Release Version	Indicator Type	Impacted & Updated Indicators
PQI	5.0.1	Area	N/A
	5.0.2	Area	All PQIs
	5.0.3	Area	All PQIs
PSI	5.0.1	Provider	PSI 02 – PSI 15, PSI 90
		Area	N/A
	5.0.1	Provider	PSI 90
		Area	N/A
	5.0.2	Provider	N/A
		Area	N/A
	5.0.3	Provider	N/A
		Area	N/A
IQI	5.0.1a	Provider	IQI 08 – IQI 20, IQI 30 – IQI 32, IQI 90, IQI 91
		Area	N/A
	5.0.1b	Provider	N/A
		Area	N/A
	5.0.2	Provider	N/A
		Area	IQI 26 – IQI 29
	5.0.3	Provider	N/A
		Area	N/A
		Area	PDI 14 – PDI 18, PDI 91, PDI 92
	5.0.3	Provider	N/A
Area		N/A	

N/A = No changes to indicator the release version

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Module	Release Version	Indicator Type	Impacted & Updated Indicators
PDI	5.0.1a & 5.0.1b	Provider	NQI 01 – NQI 03, PDI 01 - PDI 02, PDI 05 - PDI 06, PDI 08 – PDI 12, PDI 19
		Area	N/A
	5.0.2	Provider	N/A
		Area	PDI 14 – PDI 18, PDI 91, PDI 92
	5.0.3	Provider	N/A
		Area	N/A

N/A = No changes to indicator the release version

Dates of Release:

Version 5.0.1: April 23, 2015

Version 5.0.2: December 15, 2015

Version 5.0.3: February 12, 2016