

## Pregnancy Outcomes

### Stakeholder Working Group Questions

- How does KanCare impact pregnancy outcomes?

### Research Questions

- **RC7.** Have members enrolled in KanCare shown improved pregnancy outcomes?

### Measures, Data Sources and Reports by Research Question

- **RC7.** Have members enrolled in KanCare shown improved pregnancy outcomes?

Measure	Data Source	Report
Birth weight	MCO claims or encounters <ul style="list-style-type: none"> <li>• Each MCO submits claims data to the state as encounters. An encounter is a subset of the full claims data.</li> <li>• Measures are available for current and prior years but are either not publicly reported or not publicly reported for KanCare mothers or infants specifically.</li> <li>• Resources may be needed to risk adjust comparisons between groups or geographies, normalize data between multiple sources, and set up data exchange agreements.</li> </ul>	Not available
Gestational Age		
Length of Stay		
Rate of Infant Mortality		
Rate of Maternal Mortality		
NAS diagnosis at birth		
SUD treatment during pregnancy		
NICU admission at birth by NICU tier		
Timeliness of Prenatal Care: What percentage of deliveries received a prenatal care visit as a member of the organization in the first trimester, on the enrollment start date, or within 42 days of enrollment in the organization?	Healthcare Effectiveness Data and Information Set (HEDIS) <ul style="list-style-type: none"> <li>• A nationally standardized set of performance measurements based on claims/encounters, chart review or a hybrid approach.</li> <li>• Measures published in the KanCare Annual Report since 2015 and are current pay for performance measures.</li> <li>• Minimal additional resources needed to assess.</li> </ul>	<a href="#">KanCare Annual Report</a>
Postpartum care: What percentage of deliveries had a postpartum visit on or between 21 and 56 days after delivery?		
What percentage of KanCare mothers received a dental cleaning during their most recent pregnancy?	Pregnancy Risk Assessment Monitoring System (PRAMS) survey <ul style="list-style-type: none"> <li>• A randomly sampled survey of Kansas-resident mothers who delivered a live infant in Kansas.</li> <li>• Measures available in Kansas since 2017. Results for KanCare mothers specifically are not reported but are available from KDHE.</li> <li>• Small sample size may be a challenge depending on the measure.</li> <li>• In Kansas, the overall response rate for PRAMS is usually at or above 60%, while the response rate among Medicaid mothers is closer to 50%.</li> </ul>	<a href="#">Kansas PRAMS 2017 Surveillance Report</a>
What percentage of KanCare mothers reported a condition of anxiety or depression before or during their most recent pregnancy.		
What percentage of KanCare mothers reported a need for treatment or counseling for depression after giving birth, but did not receive treatment or counseling (includes the reason for not receiving treatment)?		

<b>KMMC Measure Assessment Tool</b> <i>(Note: In each category, check all that apply)</i>	
<b>Measures:</b> <ol style="list-style-type: none"> <li>1.) Birth weight</li> <li>2.) Gestational age</li> <li>3.) Length of stay</li> <li>4.) Rate of infant mortality</li> <li>5.) Rate of maternal mortality</li> <li>6.) NAS diagnosis at birth</li> <li>7.) SUD treatment during pregnancy</li> <li>8.) NICU admission at birth by NICU tier</li> </ol>	
<b>Data Source(s): Claims Data</b> <i>(based on MCO perspective)</i>	
<b>Source of Report: n/a</b>	
<b>Availability</b> <input type="checkbox"/> Measure available in public reports <input type="checkbox"/> Measure available but not for public consumption <input checked="" type="checkbox"/> Measure not currently available <input type="checkbox"/> Other _____	<i>Summary notes and clarifying comments here.</i>  For several of these measures data exists for Kansas, however it is not specific to the KanCare population. In other cases where KanCare participants can be included the sample size is too small.
<b>Methods</b> Study Population <input checked="" type="checkbox"/> KanCare members overall/in general <input checked="" type="checkbox"/> Subgroup, (specify: <u>rate cell</u> ) Data Source <input type="checkbox"/> Administrative reports <input checked="" type="checkbox"/> Claims data <input type="checkbox"/> Survey with random sampling <input type="checkbox"/> Survey with convenience sampling <input type="checkbox"/> Other _____ Data collection frequency <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Monthly (for annual reporting) <input type="checkbox"/> Annually <input type="checkbox"/> Other _____ <input type="checkbox"/> Potential for longitudinal analysis. Data has been consistently measured since:	<i>Summary notes and clarifying comments here.</i>  Each MCO submits claims data to the state as encounters. The encounter is a subset of the full claims data.
<b>Standards</b> Derivation meets industry standard <input checked="" type="checkbox"/> Yes (specify sources <u>literature review and clinical expert opinions</u> ) Benchmark <input checked="" type="checkbox"/> National benchmark <input checked="" type="checkbox"/> Peer state benchmark <input checked="" type="checkbox"/> Private payer benchmark <input checked="" type="checkbox"/> Prior performance as benchmark <input checked="" type="checkbox"/> Other <u>Standards of Care and DRG</u> <input type="checkbox"/> Not available	

Stakeholder Question: How does KanCare impact pregnancy outcomes?

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<p><b>Resources/Effort Required</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Direct application</li> <li><input type="checkbox"/> Some transformation/revision</li> <li><input type="checkbox"/> Moderate transformation/revision</li> <li><input type="checkbox"/> Significant transformation/revision</li> <li><input checked="" type="checkbox"/> New measure needed</li> </ul>	<p><i>Summary notes and clarifying comments here.</i> Resources required for the initial measure, i.e., distribution of gestational age or percentage of pre-term birth, should be light. However, moderate resources could be needed if the question is expanded to include risk adjustment or comparisons between groups or geographies. Depending on data source, additional resources could be required to normalize data between multiple sources. Additional time could also be needed to set up a data exchange and get the needed agreements in place.</p>
<p><b>Limitations</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Data quality issues (e.g., missing, consistency)</li> <li><input type="checkbox"/> Generalizability</li> <li><input type="checkbox"/> Certain groups are not represented</li> <li><input type="checkbox"/> Other _____</li> </ul>	<p><i>Summary notes and clarifying comments here.</i> If we have access to the claims data or data at the similar level, we can link moms and babies. Some database platforms, e.g., DAI (retired; previous KanCare data query-able database), do not allow this.</p>
<p><b>Other Notes:</b> standard length of stay for newborns:  <a href="http://www.ncsl.org/research/health/final-maternity-length-of-stay-rules-published.aspx">http://www.ncsl.org/research/health/final-maternity-length-of-stay-rules-published.aspx</a>  <a href="https://www.aap.org/en-us/about-the-aap/aap-press-room/aap-press-room-media-center/Pages/Appropriate-Newborn-Hospital-Stays.aspx">https://www.aap.org/en-us/about-the-aap/aap-press-room/aap-press-room-media-center/Pages/Appropriate-Newborn-Hospital-Stays.aspx</a>  <a href="https://www.cdc.gov/mmwr/preview/mmwrhtml/00043388.htm">https://www.cdc.gov/mmwr/preview/mmwrhtml/00043388.htm</a>  <a href="https://www.kmap-state-ks.us/Documents/Content/Provider/Hospital_DRG_Weights-Rates.xlsx">https://www.kmap-state-ks.us/Documents/Content/Provider/Hospital_DRG_Weights-Rates.xlsx</a>  <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3336902/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3336902/</a>  Pre-Term Birth definition from WHO:  <a href="https://www.who.int/en/news-room/fact-sheets/detail/preterm-birth">https://www.who.int/en/news-room/fact-sheets/detail/preterm-birth</a>  Kansas Low Birth weight statistics  <a href="https://muse.jhu.edu/article/579451">https://muse.jhu.edu/article/579451</a>  <a href="http://www.kansashealthmatters.org/indicators/index/view?indicatorId=1372&amp;localeId=19">http://www.kansashealthmatters.org/indicators/index/view?indicatorId=1372&amp;localeId=19</a>  <a href="https://www.marchofdimes.org/Peristats/ViewSubtopic.aspx?reg=20&amp;top=4&amp;stop=51&amp;lev=1&amp;slev=4&amp;obj=1">https://www.marchofdimes.org/Peristats/ViewSubtopic.aspx?reg=20&amp;top=4&amp;stop=51&amp;lev=1&amp;slev=4&amp;obj=1</a>  <a href="http://www.kdheks.gov/phi/download/Preliminary_Birth_Report_2017.pdf">http://www.kdheks.gov/phi/download/Preliminary_Birth_Report_2017.pdf</a>  Infant Mortality:  <a href="http://www.kdheks.gov/phi/AS_Tables/AS_2016_Tables_and_Figures/fetal/2016InfantMortalityResearchBrief.pdf">http://www.kdheks.gov/phi/AS_Tables/AS_2016_Tables_and_Figures/fetal/2016InfantMortalityResearchBrief.pdf</a>  <a href="http://www.kansashealthmatters.org/indicators/index/view?indicatorId=1364&amp;localeId=19">http://www.kansashealthmatters.org/indicators/index/view?indicatorId=1364&amp;localeId=19</a>  <a href="https://www.khi.org/policy/article/18-08">https://www.khi.org/policy/article/18-08</a>  Maternal Mortality:  <a href="http://www.kansasmch.org/mmr.asp">http://www.kansasmch.org/mmr.asp</a>  <a href="http://www.kslegislature.org/li/m/statute/065_000_0000_chapter/065_001_0000_article/065_001_0077_section/065_001_0077_k.pdf">http://www.kslegislature.org/li/m/statute/065_000_0000_chapter/065_001_0000_article/065_001_0077_section/065_001_0077_k.pdf</a>  <a href="https://khap2.kdhe.state.ks.us/NewsRelease/PDFs/09-18-2018%20Maternal%20Mortality%20Review%20Launches%20in%20Kansas.pdf">https://khap2.kdhe.state.ks.us/NewsRelease/PDFs/09-18-2018%20Maternal%20Mortality%20Review%20Launches%20in%20Kansas.pdf</a>  NAS:  <a href="http://www.kansasmch.org/documents/meetings/2017-04-05/Dr.%20Jackson%20NAS%20Presentation.pdf">http://www.kansasmch.org/documents/meetings/2017-04-05/Dr.%20Jackson%20NAS%20Presentation.pdf</a>  <a href="https://www.hcup-us.ahrq.gov/reports/Trends_NeonatalAbstinenceSyndrome_Births_UnitedStates.pdf">https://www.hcup-us.ahrq.gov/reports/Trends_NeonatalAbstinenceSyndrome_Births_UnitedStates.pdf</a>  <a href="https://www.drugabuse.gov/opioid-summaries-by-state/kansas-opioid-summary">https://www.drugabuse.gov/opioid-summaries-by-state/kansas-opioid-summary</a>  <a href="https://kansaspqc.org/neonatal-abstinence-syndrome-nas-initiative/">https://kansaspqc.org/neonatal-abstinence-syndrome-nas-initiative/</a></p>	

<b>KMMC Measure Assessment Tool</b> (Note: In each category, check all that apply)	
<b>Measures:</b> 1.) Prenatal and Postpartum Care (PPC)	
<b>Data Source(s):</b> HEDIS	
<b>Source of Report:</b> <a href="#">KanCare Annual Report</a> , pages 108-111	
<b>Availability</b> <input checked="" type="checkbox"/> Measure available in public reports <input type="checkbox"/> Measure available but not for public consumption <input type="checkbox"/> Measure not currently available <input type="checkbox"/> Other _____	<i>Summary notes and clarifying comments here.</i> This measure has been published in the KanCare Annual Report and this measure included since 2015.
<b>Methods</b> Study Population <input checked="" type="checkbox"/> KanCare members overall/in general <input type="checkbox"/> Subgroup, (specify: <u>rate cell</u> ) Data Source <input checked="" type="checkbox"/> Administrative reports <input checked="" type="checkbox"/> Claims data <input checked="" type="checkbox"/> Survey with random sampling <input type="checkbox"/> Survey with convenience sampling <input type="checkbox"/> Other _____ Data collection frequency <input type="checkbox"/> Ongoing <input type="checkbox"/> Monthly (for annual reporting) <input checked="" type="checkbox"/> Annually <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Potential for longitudinal analysis. Data has been consistently measured since:	<i>Summary notes and clarifying comments here.</i> KFMC has audited this measure each year, in addition to the measure audit required prior to NCQA submission.  Potential variances are include: <ul style="list-style-type: none"> <li>• Admin (claims only) or Hybrid rates (chart review for a sample)</li> <li>• Other variances called out in the measure audit reports.</li> </ul>
<b>Standards</b> Derivation meets industry standard <input checked="" type="checkbox"/> Yes (specify sources <u>literature review and clinical expert opinions</u> ) Benchmark <input checked="" type="checkbox"/> National benchmark <input checked="" type="checkbox"/> Peer state benchmark <input checked="" type="checkbox"/> Private payer benchmark <input checked="" type="checkbox"/> Prior performance as benchmark <input checked="" type="checkbox"/> Other <u>Standards of Care and DRG</u> <input type="checkbox"/> Not available	
<b>Resources/Effort Required</b> <input checked="" type="checkbox"/> Direct application <input type="checkbox"/> Some transformation/revision <input type="checkbox"/> Moderate transformation/revision <input type="checkbox"/> Significant transformation/revision <input checked="" type="checkbox"/> New measure needed	Minimal resource/effort required.

Stakeholder Question: How does KanCare impact pregnancy outcomes?

11/1/2019

Research Question: Have members enrolled in KanCare shown improved pregnancy outcomes?

<b>Limitations</b> <input type="checkbox"/> Data quality issues (e.g., missing, consistency) <input type="checkbox"/> Generalizability <input type="checkbox"/> Certain groups are not represented <input type="checkbox"/> Other _____	
<b>Other Notes:</b>	

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<b>KMMC Measure Assessment Tool</b> (Note: In each category, check all that apply)	
<b>Measures:</b>	
1.) Percent of KanCare mothers who received a dental cleaning during their most recent pregnancy. 2.) Percent of KanCare mothers reporting a condition of anxiety or depression before or during pregnancy. 3.) Percent of KanCare mothers reporting a need for treatment or counseling for depression after giving birth, but not receiving treatment and reason for not receiving treatment.	
<b>Data Source(s): Kansas Pregnancy Risk Assessment Monitoring System Survey (PRAMS)</b>	
<b>Source of Report: Kansas Department of Health and Environment (KDHE)</b>	
<b>Availability</b> <input type="checkbox"/> Measure available in public reports <input checked="" type="checkbox"/> Measure available but not for public consumption <input type="checkbox"/> Measure not currently available <input type="checkbox"/> Other _____	KDHE provides this measure for all Kansas mothers but does not report the sub-group of KanCare mothers.  <a href="#">Kansas PRAMS 2017 Surveillance Report</a>  Data from questions 9, 11, and 12 will be used to subset responses for each measure:  9 – During the month before you got pregnant with your new baby, what kind of health insurance did you have? 11– During your most recent pregnancy, what kind of health insurance did you have for your prenatal care? 12 – What kind of health insurance do you have now?  Measure 1 will be calculated from responses to question 21 – During your most recent pregnancy, did you have your teeth cleaned by a dentist or dental hygienist?  Measure 2 will be calculated from responses to questions 4 and 22 – During the 3 months before you got pregnant with your new baby (or “During your most recent pregnancy”), did you have any of the following health conditions?  Measure 3 will be calculated from responses to questions 76 – Since your new baby was born, was there a time when you thought you needed treatment or counseling for depression but didn’t get it? And 77 – What were your reasons for not getting treatment or counseling for depression?
<b>Methods</b> Study Population <input checked="" type="checkbox"/> KanCare members overall/in general <input type="checkbox"/> Subgroup, (specify: see Other Notes below _____)  Data Source <input type="checkbox"/> Administrative reports <input type="checkbox"/> Claims data <input checked="" type="checkbox"/> Survey with random sampling	PRAMS is sent monthly to a stratified random sample of Kansas-resident mothers who delivered a live infant in Kansas. Infants of low birthweight (<2,500 grams) are over-sampled compared to infants of normal or high birthweight, to ensure that adequate information is collected on this high-risk subgroup.  Kansas has issued the survey since 2017. The 2017 data are available currently and the 2018 data will be available soon. A combined 2017-2018 sample will most likely be needed for analysis of data on KanCare mothers to ensure a good response rate. Data are unreportable if the

Research Question: Have members enrolled in KanCare shown improved pregnancy outcomes?

<input type="checkbox"/> Survey with convenience sampling <input type="checkbox"/> Other _____ Data collection frequency <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Monthly (for annual reporting) <input type="checkbox"/> Annually <input type="checkbox"/> Other _____ <input type="checkbox"/> Potential for longitudinal analysis. Data has been consistently measured since: 2017.	denominator is less than 30 respondents and/or the numerator is less than 6, while any denominator with less than 60 respondents should be interpreted with caution.
<p><b>Standards</b></p> Derivation meets industry standard <input checked="" type="checkbox"/> Yes (specify sources _literature review and clinical expert opinions_) Benchmark <input checked="" type="checkbox"/> National benchmark <input checked="" type="checkbox"/> Peer state benchmark <input type="checkbox"/> Private payer benchmark <input type="checkbox"/> Prior performance as benchmark <input type="checkbox"/> Other _____ <input type="checkbox"/> Not available	PRAMS is a surveillance project of the Centers for Disease Control and Prevention (CDC) and state health departments. Developed in 1987, PRAMS collects state-specific, population-based data on maternal attitudes and experiences before, during, and shortly after pregnancy. PRAMS surveillance currently covers about 83% of all U.S. births in 47 states. PRAMS data is the source for many fact sheets, <i>Morbidity and Mortality Weekly Report</i> articles, and peer-reviewed journal articles. <ul style="list-style-type: none"> <li>• <a href="https://www.cdc.gov/prams/index.htm">https://www.cdc.gov/prams/index.htm</a></li> <li>• <a href="https://www.cdc.gov/prams/pdf/methodology/PRAMS-Design-Methodology-508.pdf">https://www.cdc.gov/prams/pdf/methodology/PRAMS-Design-Methodology-508.pdf</a></li> </ul>
<p><b>Resources/Effort Required</b></p> <input type="checkbox"/> Direct application <input type="checkbox"/> Some transformation/revision <input checked="" type="checkbox"/> Moderate transformation/revision <input type="checkbox"/> Significant transformation/revision <input type="checkbox"/> New measure needed	KDHE will need to produce the data for the measures of interest. Analysis of the subgroups requires SAS or specialized software (SUDAAN) to calculate the standard errors and confidence intervals for the estimates. KHI has access to SAS and SUDAAN, or KDHE could provide the standard errors and confidence intervals with the data.
<p><b>Limitations</b></p> <input type="checkbox"/> Data quality issues (e.g., missing, consistency) <input checked="" type="checkbox"/> Generalizability <input type="checkbox"/> Certain groups are not represented <input type="checkbox"/> Other _____	KDHE notes two limitations with generalizing findings to all mothers with KanCare. <ol style="list-style-type: none"> <li>1. The Medicaid population tends to be hard to reach for surveys. In Kansas, the overall response rate for PRAMS is usually at or above 60%, while the response rate among Medicaid mothers is closer to 50% (based on Medicaid status in the infant’s birth certificate, as determined from payment source for delivery).</li> <li>2. The insurance variables in PRAMS are self-reported and subject to information bias. It is possible that the actual percentage of moms on Medicaid before/during/after pregnancy will be slightly different from what is found in PRAMS.</li> </ol>
<p><b>Other Notes:</b> Additional data by subgroups such as urban/rural or race/ethnicity are also available. The same limitations with sample size would apply (not reportable if the denominator is less than 30 and/or the numerator is less than 6, and caution is needed if the denominator is less than 60).</p>	