Department of Health

OFFICE OF THE COMMISSIONER
Medicaid Program Integrity

3601 C Street, Suite 902
Anchorage, Alaska 99503-5923
Main: 907.269.0399
Fax: 907.269.3460

THE STATE
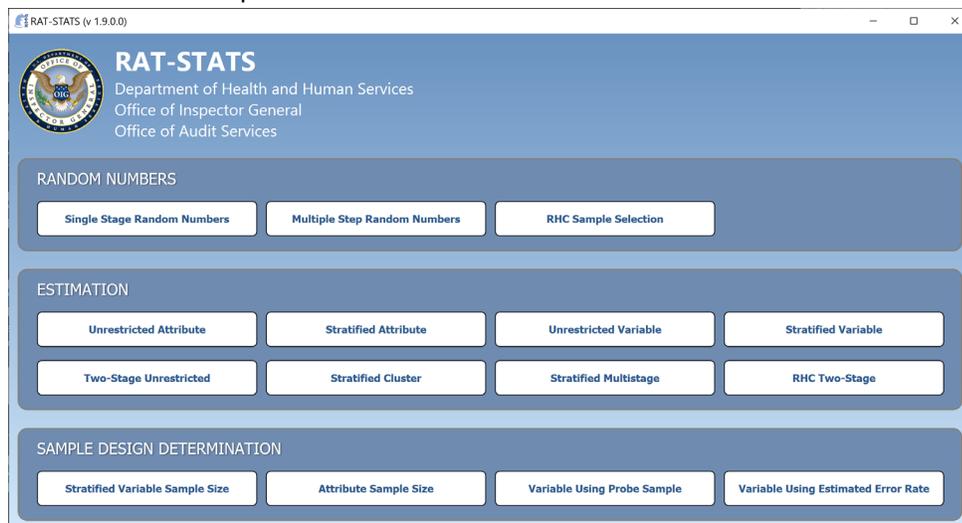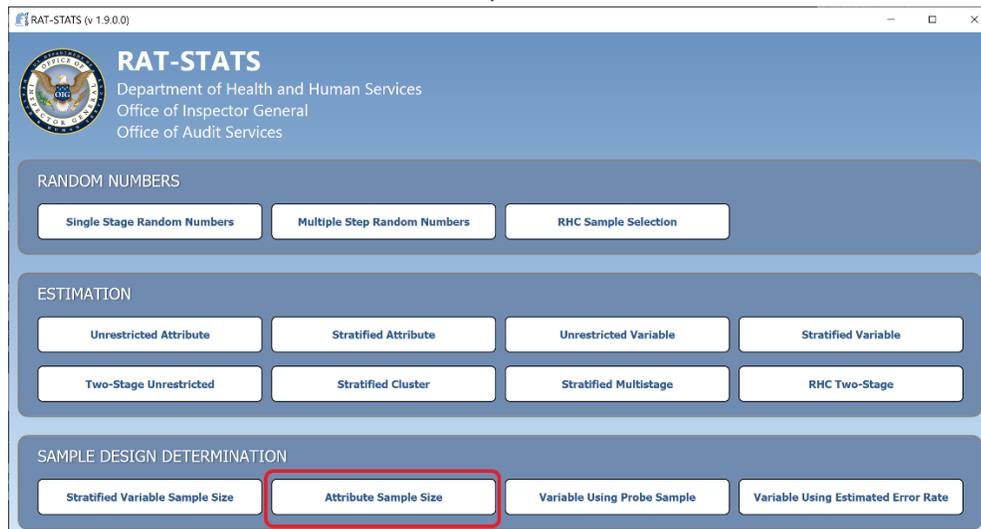*of* ALASKA
GOVERNOR MIKE DUNLEAVY

How to Determine the Sample Size in RAT-STATS

In the regulation 7 AAC 160.115(c) a Medicaid provider may use any widely accepted statistical software, such as RAT-STAT, to assist in the **sample size determination**, and sample selection, using a **minimum of a 90% confidence interval**.

1. Open RAT-STATS Version 1.9.0.0 for Windows

2. Select "Attribute Sample Size Determination"

3. Your screen will now look like this:

RAT-STATS (v 1.9.0.0)   —   ☐   ✕

Attribute Sample Size Determination

Frame Size `0`

Anticipated Rate of Occurrence `0.000` % (NOTE: Enter 5 for 5%, 10 for 10%, etc. The most conservative value is 50. The minimum value is 0.5% and the maximum value is 98%.)

Desired Precision Range `0.000` % (NOTE: The "desired precision range" for the frame error rate is the desired width of the confidence interval. For example, if the confidence interval 10% to 16%, satisfies your precision requirements enter "6" (16% - 10%) in the box. The minimum value is 1% and the maximum value is 99%.)

Confidence Level Options:

☑ 80%   ☑ 90%   ☑ 95%   ☑ 99%   ☐ Custom `80` %

File Output Options:

☐ Text File

| Process | Clear Fields | Main Menu |

4. Complete the following steps to determine your sample size.
   a. Enter a percentage in the "Anticipated Rate of Occurrence" box. 10% is a suggested percentage
   b. Enter a percentage in the "Desired Precision Range" box. 10% is a suggested precision.
   c. Enter in your "Frame Size" (universe) of claims; in this example 1,000 claims is used. This would be all of your paid Medicaid claims (Transaction Control Numbers (TCN)) for the selected calendar year at the claim header level.
   d. In the Confidence Level box, Select a minimum of 90%.

5. Select "Process" at the bottom left side of screen.

In this example the Sample Size would be **106 TCNs** to sample.