Descriptive Tables

Table 1. First-Attempt Pass Rates for WI and the Nation

Course Completion Year	WI 1st Time Pass Rate	National 1st Time Pass Rate	p-value (Chi-square)
2014	77% (264/343)	74%	0.280
2015	80% (239/297)	73%	0.005

Summary: There was no difference in the first-time pass rates between NRP candidates from WI and the national first-time pass rates for the classes of 2014. In 2015, those from WI had a significantly higher pass rate than the national average.

Table 2. First-Attempt Average Test Score for WI and the Nation

Course Completion Year	WI 1st Attempt Avg Theta	National 1st Attempt Avg Theta	p-value (t-test)
2014 (n=343)	1.54 (95% CI: 1.49-1.60)	1.56 (95% CI: 1.55-1.57)	0.642
2015 (n=297)	1.63 (95% CI: 1.58-1.69)	1.56 (95% CI: 1.55-1.57)	0.033

Summary: For the class of 2014, there was no difference in first attempt test thetas for paramedic candidates from WI compared to the national average. The average theta among graduates from the class of 2015 in WI was higher than the national average.

Table 3. Cumulative Third Attempt Pass Rate for WI and the Nation

Course Completion Year	WI Cumulative 3rd Time Pass Rate	National Cumulative 3rd Time Pass Rate	p-value (Chi-square)
2014	89% (304/343)	87%	0.452
2015	92% (273/297)	86%	0.002

Summary:

There was no difference in cumulative third-attempt pass rates for paramedic candidates who graduated from a program in WI in 2014 compared to the national average. The cumulative third-time pass rate among candidates from WI graduating in 2015 was higher than the national average.

High and Low Performing Program Analysis

**Methods Note: Using the 2013 national average first-time pass rate as a benchmark, programs were classified as high performing if first-time pass rate was >73%

Table 4. Number of High and Low Performing Programs in WI

Course Completion Year	Total # programs with 1 or more candidates testing	High-Performing	Low -Performing
2014	15	8 (53%)	7 (47%)
2015	16	15 (94%)	1 (6%)

Table 5. Proportion of Students Graduating from High and Low Performing Programs in WI

Course Completion Year	High Performing	Low Performing
2014	56% (193/343)	44% (150/343)
2015	95% (282/297)	5% (15/297)

Table 6. Odds of Passing First Attempt if Graduating from a High Performing Program in WI

Course Completion Year	OR	95% CI	p-value (LR test)
2014	2.83	1.68-4.76	<0.001
2015*	3.96	1.37-11.42	0.014

*The wide variability in 2015 is due to the small number of students that attended a low-performing program (n=15)

Table 7. First Attempt Average Thetas and Pass Rates by High and Low Performing Programs

Course Completion Year	1st Attempt Test Theta **High-Perf Only** Avg (95% CI)	1st Attempt Test Theta **Low-Perf Only** Avg (95% CI)	p-value (t-test)
2014	1.65 (1.58-1.71)	1.41 (1.32-1.50)	<0.001
2015	1.65 (1.59-1.71)	1.35 (1.11-1.60)	0.028

Table 8. First Attempt Pass Rates by High and Low Performing Programs

Course Completion Year	1st Attempt Pass Rate **High-Perf Only**	1st Attempt Pass Rate **Low-Perf Only**	p-value (Chi-square)
2014	85% (164/193)	67% (100/150)	<0.001
2015	82% (231/282)	53% (8/15)	0.007

CONTENT AREA THETA ANALYSIS

Table 9. First Attempt Content Area Average Thetas for WI by High and Low Performing Programs

Course Completion	High-Performing **ARV** (mean score[95%CI])	Low-Performing **ARV** (mean score[95%CI])	p-value (t-test)
2014	1.64 (1.55-1.73)	1.46 (1.30-1.61)	0.037
2015	1.71 (1.62-1.80)	1.14 (0.66-1.62)	0.006

Course Completion	High-Performing **Cardio** (mean score[95%CI])	Low-Performing **Cardio** (mean score[95%CI])	p-value (t-test)
2014	1.63 (1.55-1.71)	1.42 (1.31-1.53)	0.002
2015	1.63 (1.55-1.71)	1.29 (1.08-1.50)	0.066

Course Completion	High-Performing **Trauma** (mean score[95%CI])	Low-Performing **Trauma** (mean score[95%CI])	p-value (t-test)
2014	1.72 (1.62-1.82)	1.38 (1.26-1.49)	<0.001
2015	1.72 (1.63-1.81)	1.32 (0.81-1.82)	0.041

Course Completion	High-Performing **Medical** (mean score[95%CI])	Low-Performing **Medical** (mean score[95%CI])	p-value (t-test)
2014	1.81 (1.70-1.91)	1.53 (1.39-1.67)	0.001
2015	1.64 (1.55-1.74)	1.48 (1.17-1.78)	0.408

Course Completion	High-Performing **Ops** (mean score[95%CI])	Low-Performing **Ops** (mean score[95%CI])	p-value (t-test)
2014	1.57 (1.47-1.67)	1.43 (1.30-1.56)	0.089
2015	1.73 (1.63-1.82)	1.81 (1.36-2.25)	0.710

Table 10. First Attempt Content Area Average Thetas for WI compared to the National Average

Course Completion	WI **ARV** (mean score[95%CI])	National Avg **ARV** (mean score[95%CI])	p-value (t-test)
2014	1.56 (1.47-1.64)	1.60 (1.59-1.62)	0.346
2015	1.68 (1.59-1.77)	1.61 (1.60-1.63)	0.138

Course Completion	WI **Cardio** (mean score[95%CI])	National Avg **Cardio** (mean score[95%CI])	p-value (t-test)
2014	1.54 (1.47-1.60)	1.58 (1.56-1.59)	0.295
2015	1.61 (1.53-1.69)	1.58 (1.57-1.60)	0.457

Course Completion	WI **Trauma** (mean score[95%CI])	National Avg **Trauma** (mean score[95%CI])	p-value (t-test)
2014	1.57 (1.49-1.65)	1.62 (1.61-1.64)	0.219
2015	1.70 (1.62-1.79)	1.62 (1.60-1.63)	0.089

Course Completion	WI **Medical** (mean score[95%CI])	National Avg **Medical** (mean score[95%CI])	p-value (t-test)
2014	1.68 (1.60-1.77)	1.59 (1.57-1.60)	0.034
2015	1.64 (1.55-1.72)	1.59 (1.58-1.61)	0.335

Course Completion	WI **Ops** (mean score[95%CI])	National Avg **Ops** (mean score[95%CI])	p-value (t-test)
2014	1.51 (1.53-1.56)	1.55 (1.53-1.56)	0.413
2015	1.73 (1.64-1.82)	1.57 (1.56-1.59)	0.002