

DEPARTMENT OF TRANSPORTATION

DIVISION OF MOTOR VEHICLES

RALEIGH, NORTH CAROLINA

STUDY TO ELIMINATE NURSES IN MEDICAL REVIEW PROGRAM

S.L. 2017-58 §34.36.(a) and (b)

DECEMBER 2017



PURPOSE

To determine the feasibility of utilizing only the health care provider (HCP) recommendation in determination of a customer's ability to safely operate a motor vehicle, the North Carolina Division of Motor Vehicles (NCDMV) conducted a study to compare the recommendations between the reviewing health care provider and the division's nurse consultants.

BACKGROUND

This study was conducted by the NCDMV to address sections 34.36.(a) and (b) of Session Law 2017-57 passed by the North Carolina General Assembly in July 2017.

FINDINGS

With respect to customers whose driving privilege is evaluated by the medical review program, the NCDMV has identified the following major findings and recommendations in conducting this study:

- The NCDMV is the only entity able to view the whole presentation of the customer's knowledge and road test performance, driving status, crash history, existing restrictions, and health status.
- 31% of health care providers do not offer recommendation with respect to driving privilege, thus introducing inconsistency in provider-based recommendation.
- 39% of the NCDMV nurse reviewers were more favorable to customers by applying restrictions appropriate to their driving ability vs. categorically recommending license cancellation.
- A comprehensive set of driving privilege restrictions permit increased attention to public safety and customer service by addressing the customer's unique situation.
- The existing technology infrastructure cannot be extended to permit health care providers to enter driving restrictions or recommendations without continued utilization of NCDMV resources.
- The complexities with implementing a health care provider only recommendation would need significant risk planning, policy consideration, and third-party participation for a successful outcome.

RECOMMENDATIONS

- As the only comprehensive customer-reviewing entity, the NCDMV should continue the current process of utilizing on-staff nurse reviewers to determine restriction or driving privilege.
- A follow-on study should be performed with appropriate health care industry representatives, such as the North Carolina Medical Board, and state transportation research entities, such as the Highway Safety Research Center and the Institute for Transportation Research and Education, to increase program efficacy towards improved safety and customer service.

This study uses the common term "customer" to represent all forms of interaction with the NCDMV, to include applicant, licensee, driver, or any other type of dealing.

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BACKGROUND

NCDMV MEDICAL REVIEW PROGRAM

Under the authority of G.S. §20-7.(e) and §20-9.(e) and (g), the NCDMV established the Medical Review Program (MRP) with timely review and evaluation of customer driving privileges according to available medical information, driving and crash history, and vehicle operations. Customer referrals may be received from a variety of sources such as, multiple private physicians, family, friends, as a part of a crash report, or from driver license examiners based on their observation of the customer during testing. The program staff are responsible for evaluation and assessment of a customer health condition to determine if it poses a safety risk to oneself or others when operating a motor vehicle. Of the current 11 permanent and eight temporary personnel on staff, there are nurses, administrative support staff, medical hearing officers, and a medical doctor who oversees the unit. A medical doctor provides program oversight and serves as a medical resource to the nurse consultants.

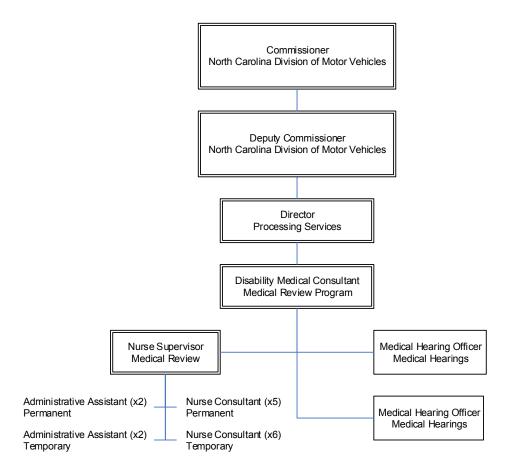


Figure 1: Current Medical Review Program Organization

MEDICAL REVIEW PROGRAM COST CONSIDERATIONS

Current program costs consider a blend of recurring and non-recurring costs. Permanent costs include staff positions, equipment, and supplies. The non-recurring costs are associated with temporary staff positions that were funded through expansion budget requests expiring with this current fiscal year.

| CATEGORY | Соѕт |
|-----------------------------------|-------------|
| Permanent Labor Cost | \$993,000 |
| Temporary Labor Cost ¹ | \$722,000 |
| Equipment Cost | \$7,900 |
| Office Supply Cost | \$19,900 |
| Total | \$1,742,800 |

| Table 1: Current | SFY2018 MRP C | Costs |
|------------------|---------------|-------|
|------------------|---------------|-------|

| CATEGORY | Соѕт | | |
|-----------------------------------|-------------|--|--|
| Permanent Labor Cost | \$993,000 | | |
| Temporary Labor Cost ² | \$372,000 | | |
| Equipment Cost | \$7,900 | | |
| Office Supply Cost | \$19,900 | | |
| Total | \$1,392,800 | | |

Table 2: Estimated SFY2019 MRP Cost

GENERAL PROCESS OVERVIEW

Once a customer is referred to the program, a reviewing nurse in the Medical Review Program requests medical information from the customer's health care provider; the provider is also asked to offer a recommendation regarding the customer's ability to safely operate a motor vehicle. Statute does not currently require a health care provider to offer recommendation; it is optional.

¹ A portion of the temporary labor costs associated with nurse consultants is only funded through the end SFY2018.

² Temporary costs for SFY2019 are appropriated based on "A dedicated source of funding is required for the NC Division of Motor Vehicles' Medical Review Unit, which provides mandated services set by GS 20-9. The funding will be used to contract physicians for the purposes of case reviews and Medical Review Board Hearings for individuals with physical or mental disabilities. The proposed recommendation of \$350,000 is a 1,571% increase over the current budget for this area of \$22,281." This is supported by *The Governor's North Carolina State Budget*, *Recommended Adjustments*, for 2014-2015, and *The Joint Conference Committee Report on the Continuation, Expansion, and Capital Budgets*, for SB744.

After review of medical information and the recommendation from a customer's health care provider, an NCDMV reviewing nurse drafts a findings-of-fact statement and makes a determination regarding driving privileges. The outcome may be:

- 1. Permit the customer to keep driving with no program enrollment;
- 2. Upon enrollment, permit the customer to keep driving with restrictions on the license;
- 3. Upon periodic review, permit the customer to keep driving with existing restrictions or place additional restrictions on the license; or
- 4. Cancel the customer's driving privilege and driver license with program retention and reevaluation upon a change in health status.

If a customer disagrees with this initial decision of the Medical Review Program, an appeal to the medical review board (MRB) may be made. The board has final authority to affirm, modify, or repeal the decision. The medical review board is comprised of one NCDMV hearing officer and two physicians contracted by the Division. This board meets one or two times per month to review customer appeals. A customer may also appeal the decision of the medical review board to superior court.

Periodic changes to process or procedure do occur when efficiency improvements are introduced, or when required by statue or a type of legal settlement. Refer to Appendix A for information on the recent North Carolina Disability Rights consent judgement.

BACKGROUND

GENERAL OVERVIEW OF MEDICAL REVIEW PROCESS

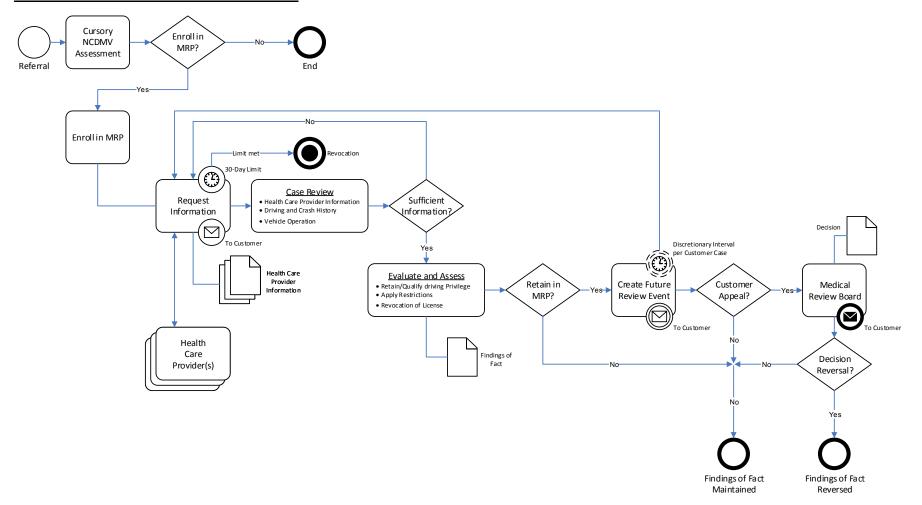


Figure 2: Medical Review Process



NURSE STUDY

METHODOLOGY

Two types of studies were conducted: an internal NCDMV study to compare the findings and recommendations of the NCDMV nurse reviewers against those of the customer's health care provider, and an external survey distributed via the American Association of Motor Vehicle Administrators (AAMVA).³ The first was to understand if a relationship exists in the outcome of NCDMV nurse reviewers and health care provider recommendations; the latter to develop increased awareness of other jurisdictional practices.

INTERNAL – NCDMV

This internal study followed a strict scientific methodology of a randomized double-blind process to ensure no bias in sample selection. One hundred random customers were selected from amongst multiple queues that the Medical Review Program uses to prioritize cases.

| QUEUE | QUEUE DESCRIPTION |
|--------|---|
| MEGEN | General cases |
| MHEAD | Seizure cases |
| MEYE | Vision cases |
| MEHARD | Customer currently being monitored with follow-up |
| MERUSH | High priority, with ≤3-day turnaround |

Table 3: Data Queues Sampled

Choosing samples from multiple queues minimizes the possibility of results being skewed by a specific health condition. Also, different NCDMV nurses work from different queues further reducing potential bias due to a specific reviewer's selection. Since this information is already collected and maintained by the division, it naturally lent itself for use in this study as both regular work and sample data.

To ensure a truly random study and improve upon the double-blind method, NCDMV nurses were not informed that their reviews would be utilized by the study; this prevented any potential alteration of findings or decisions. After sample selection, two different nurses tabulated the raw data, with a different person, who neither determined findings nor produced decision, combining it for

³ AAMVA is a tax-exempt, nonprofit organization developing model programs in motor vehicle administration, law enforcement, and highway safety. The association also serves as an information clearinghouse in these areas, and acts as the international spokesperson for these interests. More information may be found at <u>www.aamva.org</u>.

NURSE STUDY

interpretation. Utilizing this method, the study prevented selection and confirmation bias by employing a type of prospective analysis since the cases had not yet been reviewed.

NCDMV Medical Review Program Sample Data

From the 100 sample customers, conclusions were drawn on three areas that compared the health care provider's response to that of an NCDMV reviewing nurse. A description of data may be understood in Appendix B.

1. Regarding the number of health care providers that gave a specific recommendation for a customer's ability to safely operate a motor vehicle:

| NUMBER OF HCP REQUESTS | NUMBER OF HCP RESPONSES |
|------------------------|-------------------------|
| 100 | 69 |

2. Regarding the number of customers whose health care provider recommendation did not match the NCDMV reviewing nurse's recommendation:

| NUMBER OF HCP RESPONSES | NUMBER OF HCP RESPONSES NOT MATCHING NCDMV REVIEW | |
|-------------------------|--|--|
| 69 | 28 | |

3. Regarding the 28 non-matching responses, between the health care provider and the NCDMV nurse reviewer, for a customer's ability to safely operate a motor vehicle:

| | HEALTH CARE PROVIDER | NCDMV⁴ |
|---------------------------------|----------------------|--------|
| Outcome in favor of customer to | 17 | 11 |
| continue driving | | |

⁴ The implication of these findings is that only NCDMV has the capability to fully and comprehensively review a customer's health position, as it relates to safely operating a motor vehicle, either with restrictions or through license cancellation.

EXTERNAL – AAMVA SURVEY

Another component of this study was to compare the NCDMV process regarding the recommendations of health care providers with that of other states credentialing authority. For this part, the NCDMV collaborated with AAMVA to produce a survey instrument. The survey was developed by the NCDMV and deployed for response by AAMVA members via their survey tool⁵. AAMVA administered the survey, compiled responses, and forwarded results to NCDMV.

AAMVA Survey Results

The survey was posted to the AAMVA website from July 28 through August 28, 2017. All AAMVA member jurisdictions had opportunity to respond, of which 32 of 50 states provided feedback. Individual state survey responses may be reviewed in Appendix C.

| | | | | RESPONSES | |
|---|-------|-----|----|---|----------------------------|
| QUESTION | NCDMV | YES | No | States with both Yes and No ⁶ | NO RESPONSE TO QUESTION |
| Q1 - States requesting submission of medical evidence prior to decision | Yes | 26 | 4 | 2 | 0 |
| Q2 - States requesting an HCP driving recommendation | Yes | 27 | 2 | 3 | 0 |
| Q4 - States always adhering to HCP recommendations for final decision | No | 7 | 17 | 7 | 1 |
| Q5 - States experiencing a DMV decision different than the HCP recommendation | Yes | 18 | 10 | 4 | 0 |

Table 4: AAMVA Survey Results, part 1

⁵ <u>http://www.aamva.org/Survey/User/SurveyDefault.aspx</u>

⁶ States with a 'Yes' and 'No' count indicate a type of "it depends" response where individual state's statute, policy, or process plays a role in determination. For this study, all response types represent the complete reply provided by a state.

NURSE STUDY

| Q3 – PRIMARY ROLE OF REVIEWER | NCDMV | RESPONSES |
|-------------------------------------|-------|-----------|
| Some combination of four roles | Yes | 12 |
| Trained Non-Medical Personnel, only | | 17 |
| Doctor, only | | 2 |
| Nurse, only | | 0 |
| Mid-Level HCP, only | | 0 |
| No Response | | 1 |

Table 5: AAMVA Survey Results, part 2

States Utilizing Only Health Care Provider Recommendation

Of the 32 responding states to the AAMVA survey, in which seven⁷ adhere to the health care provider's recommendation, only Arkansas shared an in-depth view of their process within the timeline requested. The state of Arkansas does largely defer to outside established entities, and honors those recommendations by established statute, policy, or protocol, without regard to restrictions. Those entities include health care providers and federal-level commercial driver license (CDL) authorities. For that to work within the NCDMV, much of that policy or structure would have to be created.

The general process followed by Arkansas is:

- 1. If a customer accumulates an excessive number of points, or is of a non-CDL type, or if they are referred by physician, law enforcement, family, or citizen, the "Ability to Drive" process is followed.
- 2. The customer is sent a letter requiring them to seek a health care provider review, and have that provider complete a recommendation letter. Customers may seek a recommendation from any health care provider they elect to visit.
- 3. All customers in the "Ability to Drive" process are scheduled for an in-person or telephone hearing with a hearing officer. The hearing officers are not given any medical training, but do have administrative and legal backgrounds.
- 4. The health care providers only offer a 'drive' or 'no drive' recommendation regarding driving privilege based on the customer's medical presentation; no restrictions are used. If the customer fails to appear for the hearing with the health care provider's recommendation, their license is cancelled.

⁷ The seven states that rely exclusively on the health care provider recommendation include: Alaska, Arkansas, Colorado, Hawaii, Missouri, Ohio, Washington.

- 5. Only one provider recommendation is required for the hearing to enter into the driver license system. Because the "Ability to Drive" process was followed, the hearing officer recommends a written and road test reexam if they are cleared to drive. Upon achieving a passing state, the customer may continue with driving privilege.
- 6. If a CDL customer has a valid DOT card, they continue with driving privileges under that granting authority. Arkansas is unaware of the customer's CDL medical conditions since they ask the DOT examiner to forward a copy of the medical card. No additional information is requested.



Numerous findings were discovered during the study and are categorized as they relate to the NCDMV, the customer's health care provider, and the customer. *If a decision to eliminate division nurse reviewers is made*, a survey of associated risk is noted for each finding.

INFORMATIONAL LIMITS

A customer's health care provider may only have information specific to a single instance under review within the scope of their overall health. Also, a customer may be under the care of multiple providers.

| | NCDMV | HEALTH CARE PROVIDER | | | |
|------------------------------|---|---|--|--|--|
| Evaluation and Assessment | Multiple cases across multiple Health Care Providers | Multiple cases for a single Health Care Provider | | | |
| | Driving history | No driving history | | | |
| | Crash history | No crash history | | | |
| | Vehicle road test performance | No vehicle road test performance | | | |
| Findings of Fact | Reviews body of evidence | Reviews single Instance | | | |
| Program Retention | Based on customer's overall presentation | Based on customer's history with only that provider | | | |

Table 6: Informational Limits

NCDMV RELATED FINDINGS

- 1. Inconsistent submission of health care provider documented driving restriction or recommendation for cancellation due to current limitations in the following areas.
 - a) Policy: with no existing policy requiring health care provider feedback, study results demonstrate 31% declined to respond in this area.
 - Risk: Increased frequency of non-responsive recommendation forms.
 - b) Process: no fully qualified process for the collection of voluntarily supplied medical information.
 - Risk: Limited or no availability of customer health information.
 - c) Forms, instruction, and documentation: official forms, instructions, and documentation would need to be created to ensure comprehensive awareness and process standardization.
 - Risk: Non-standardized responses.

- d) Criteria: with no set rubric for determining when a set of restrictions converts to a cancellation of privilege, study results demonstrate only a 41% match between health care provider and the NCDMV nurse reviewers.
 - Risk: Inconsistency in applied restriction or recommended privilege.
- e) Internal workforce contributions would continue to assist with restriction and recommendation interpretation and data entry into DMV systems.
 - Risk: NCDMV would continue to be a crutch for the health care provider, essentially function in the same role, save the actual recommendation.
- 2. Observed levels of inaccuracy or differing recommendation with the health care provider's response, where they:
 - a) May not adequately consider whether a medical condition has reached control and stability via documented medical evidence, from multiple provider's responses.
 - Risk: Conflicting provider recommendations or unawareness of alternate provider responses.
 - b) May be unfamiliar with motor vehicle or CDL regulations affecting medical review program entry or retention.
 - Risk: Insufficient knowledge to draw conclusion on recommendation.
 - c) No access to a customer's motor vehicle accident history.
 - Risk: Insufficient information to draw conclusion on recommendation.
- 3. Removal of reviewing nurses may prompt a customer to find a doctor who will sign off on the recommendation portion of the medical forms even though they are not the primary caregiver and does not have a continuity relationship with them. This suggests potential unawareness of the entire customer medical history or issues.
 - Risk: No absolute recommending authority.
- 4. Non-standardized processes across multiple jurisdictions do not provide for a best-practices implementation. Each state implements policy specific to their need.
 - Risk: No standard operating model.
- 5. If the NCDMV relied solely on documents submitted by health care providers, and did not have nurses reviewing the medical documents, there would be no checks-and-balances against recommendations from providers that may adversely affect motorist safety, nor would the division have an ability to uncover fraud in medical documents submitted by drivers.

- Risk: Myriad of health care submission types and sources.
- 6. Shifting from an NCDMV operating model to a health care provider model may cause discontinuity and interrupt compliance with the Disability Rights North Carolina consent judgment, refer to Appendix A for additional information.
 - Risk: Violation of the Disability Rights North Carolina consent judgment.

HEALTH CARE PROVIDER RELATED FINDINGS

- The health care provider is an advocate for their patient, which in this case is the NCDMV customer. When there is reservation about their patient's ability to drive safely, the provider may perceive a conflict-of-interest in the relationship of either being a patient advocate or a motoring public safety advocate.
 - Risk: Doctor-Patient conflict of interest.
- 2. Health care providers make recommendations based on their specialty alone. For example, if the provider is a cardiologist, they would not have knowledge about the customer's mental alertness or visual limitations; thus, the final decision is deferred to NCDMV for consideration of all submitted information.
 - Risk: Recommendation by non-qualified specialist in alternate fields of practice.
- 3. Approximately 30% of customers had medical conditions that needed treatment by more than one specialist. This demonstrates a lack of cross-provider visibility into the customer's state of health, requiring them to seek multiple recommendations.
 - Risk: Delayed customer response and increased associated personal costs.
- 4. Approximately 31% of providers in the study declined to offer driving privilege recommendation and chose only to offer medical facts.
 - Risk: No recommendation offered by health care provider.
- 5. Added responsibility of restricting or cancelling driving privilege, where there had been none prior.
 - Risk: Reluctance of the health care provider to assume non-health care responsibilities.
- 6. Increased potential to liability and criminal penalties.
 - Risk: Fraudulent pay-for-recommendation-to-drive situations.
- 7. Third party association and industry influence, e.g., state medical board and HIPAA.

- Risk: Poor outcome due to decisions made in a vacuum.
- 8. NC statutes currently provide immunity to healthcare providers (G.S. §20-9.1.(c)) when they elect not to disclose certain information. General statute §8-53 protects physicians from being compelled to disclose confidential information unless ordered by a NC district or superior court judge or the NC Industrial Commission. To rely on health care providers to effectively become the decision-makers and interpose their judgment for the Commissioner's decisions may require significant legislative changes.
 - Risk: Reluctance of the health care provider to engage customer as a provider.

CUSTOMER RELATED FINDINGS

- 1. A need to "shop" for another health care provider, at added personal expense, to agree to fill out the medical form and provide a driving privilege recommendation.
 - Risk: At customer expense, a 'drive' recommendation is sought where none should be granted.
- 2. A potential incorrect, or non-standardized decision to extend driving privilege resulting in a compromise of customer and motoring public safety.
 - Risk: Elevated instances of unsafe driving through privilege retention.
- 3. A potential incorrect decision to cancel driving privilege when a customer is fully capable of driving.
 - Risk: Elevated instances of false-positive scenarios.



CONCLUSION

CONCLUSION

It is the recommendation of the NCDMV that no changes be made to the current process. It is further recommended that medically trained nurses within the division make final recommendation with respect to restriction and driving privilege, and that the Medical Review Program remain operational within the NCDMV to provide detailed evaluation and assessment of a customer's ability to safely operate a motor vehicle.



APPENDICES

APPENDIX A: COMPLIANCE WITH DISABILITY RIGHTS NORTH CAROLINA CONSENT JUDGMENT

To comply with a consent judgment ordered by the United States District Court on June 9, 2016, the NCDMV made necessary changes requiring referrals into the Medical Review Program and the maintenance of their records comply with federal and state laws, extending the ability to appeal rights and petition for removal from the program. The NCDMV has modified its processes to ensure employees comply with the terms of the consent judgment, including implementation of monitoring and appeals procedures.

Any change in policy that may grant or extend authority to cancel, or restrict, a driving privilege to the health care provider would need to ensure that the provider is educated on the unilateral impact it has upon that customer's privilege. It will also need to ensure the NCDMV receives provider acknowledgement accepting that responsibility for the state to maintain compliance with the consent judgment. If changed, policy must consider methods:

- To implement the health care provider's recommendation,
- For customers to be removed from the program if they disagree with their health care provider, and
- For customer review of restrictions if they disagree with the health care provider's decision.

A follow-on research effort should be undertaken to consider the breadth of implication behind addressing potential alterations to N.C.G.S §20-9.1 and §8-53. As of this writing, additional consideration or concern has not been granted towards concern or issue that may arise from the state's medical board or the health insurance portability and accountability act (HIPAA), as it relates to the elimination of nurses and using only the health care provider recommendation.

APPENDIX B: SAMPLE DATASET DESCRIPTION

| Column | DESCRIPTION |
|---|---|
| Date Reviewed | The calendar date corresponding the review of the actual case. |
| Customer Number | A surrogate number to mask the actual customer ID. |
| Dx | The health care provider's diagnosis. |
| Recommendation of Customer's Health Care Provider | If offered, the suggestion of the health care provider as to the state of safe motor vehicle operations. |
| Final Decision by MRU Review Nurse | The decision based on reviewing the entirety of the body of medical evidence, as offered, when factoring the completeness of the customer's presentation. |
| Nurse Reviewer Comments/Rationale | Descriptive text supporting either the application of a restriction or decision. |
| Did Health Care Provider give recommendation regarding customer driving ability | A 'Yes' or 'No' indicating a customer's health care provided did, or did not, offer a recommendation on driving ability. |
| Did recommendation of health care provider and MRU nurse reviewer match? | A 'Yes' or 'No' indicating a match between both NCDMV reviewing nurses and a customer's health care provider regarding the application of restrictions or a decision. |
| If no match, who was more favorable to customer? | Where recommendations did not match, a subjective assessment by the NCDMV Disability Medical Consultant, after reviewing a body of medical evidence, indicating that an outcome may, or may not, be in support of the customer. |
| Discrepancy | Descriptive text supporting the NCDMV Disability Medical Consultants match/no-match assessment. |

Table 7: Sample Data Descriptions

CUSTOMER SAMPLE DATASET SUMMARY

| AMOUNT | Measure |
|--------|---|
| 100 | Total number of Customers in study |
| 31 | Number of Customers whose HCP declined to give recommendation |
| 31% | % of Customers whose HCP declined to give recommendation |
| 69 | Number of Customers whose HCP gave recommendation |
| 69% | % of Customers whose HCP gave recommendation |
| 41 | No. of matches in recommendation between HCP and NR |
| 59% | % of matches between HCP and NR when HCP gave recommendation |
| 41% | % of matches between HCP and NR among ALL Customers |
| 28 | Number of non-matches between HCP and NR |
| 41% | % of non-matches between HCP and NR when HCP gave recommendation |
| 28% | % of non-matches between HCP and NR among ALL Customers |
| 17 | In non-matches, number where HCP was more favorable to Customer |
| 61% | In non-matches, % where HCP was more favorable to Customer |
| 11 | In non-matches, number where NR was more favorable to Customer |
| 39% | In non-matches, % where NR was more favorable to Customer |
| 27 | In non-matches, number of times HCP incorrect in the recommendation |
| 96% | In non-matches, % of times HCP incorrect in the recommendation |
| 1 | In non-matches, number of times NR incorrect in the recommendation |
| 4% | In non-matches, % of times NR incorrect in the recommendation |

Table 8: Summary Statistics

CUSTOMER SAMPLE DATASET

| DATE | CUSTOMER NUMBER | Dx | RECOMMENDATION OF CUSTOMER'S HEALTH CARE PROVIDER | FINAL DECISION BY | Nurse Reviewer Comments/Rationale | DID HEALTH CARE PROVIDER GIVE RECOMMENDATION REGARDING CUSTOMER'S DRIVING ABILITY | DID RECOMMENDATION OF HEALTH CARE PROVIDER AND MRU NURSE REVIEWER MATCH? | IF NO MATCH, WHO WAS MORE FAVORABLE TO CUSTOMER? HEALTH CARE PROVIDER (HCP) OR NURSE REVIEWER (NR) |
|-----------|--------------------|--|---|---|---|---|--|---|
| 7/20/2017 | 1 | Cognitive impairment | Unsafe to drive | Indefinite Cancellation | Impairment of mentation and judgement | Υ | Υ | |
| 7/20/2017 | 2 | Cataracts, cognitive impairment | Unsafe to drive | Indefinite Cancellation | Impairment of mentation and judgement, reaction time, depth perception. | γ | Y | |
| 7/20/2017 | 3 | IDDM, Hypertension, CAD Cataracts, Diabetic retinopathy, | No answer | Indefinite Cancellation | Field of vision is less than standard allows. | Ν | N/A | |
| 7/21/2017 | 4 | Macular degeneration | Unsafe to drive | Indefinite Cancellation | Unsafe to drive due to visual acuity | Y | Y | |
| 7/20/2017 | 5 | Seizures | Unsafe to drive for 6 months post seizure | Cancellation until 8/28/17 | Customer needs to be seizure free for 6 months | Y | Y | |
| 7/20/2017 | 6 | Seizures | Unsafe to drive for 6 months post seizure | Cancellation until 8/19/17 | Customer needs to be seizure free for 6 months | Y | Y | |
| 7/20/2017 | 7 | Optic Atrophy, Macular degeneration | Unsafe to drive | Indefinite Cancellation | Visual Acuity poses a risk to self and others on highway | Y | Y | |
| 7/20/2017 | 8 | Diabetes, IDDM, hypoglycemic episodes | Unsafe to drive at present | Cancellation until 1 /10/18 will re- evaluate | Customer is noncompliant with treatment and had a hypoglycemic episode | Y | Y | |
| 7/21/2017 | 9 | Syncopy | Safe to drive | Cancellation, reconsider | Unsafe to drive due to syncope and bradycardia | Y | Ν | НСР |
| 7/21/2017 | 10 | IDDM, Hypertension | Safe to drive CMV | Approve to drive, no CMV restriction | A1c above limit for CDL drivers | Y | у | |
| 7/21/2017 | 11 | Hypothyroidism, SVT | No follow up needed, approved to drive | Approved to drive, Removed from MRP | Stable no MVAs | Y | Y | |

| DATE REVIEWED | Customer Number | Dx | Recommendation of Customer's Health Care Provider | FINAL DECISION BY | Nurse Reviewer Comments/Rationale | DID HEALTH CARE PROVIDER GIVE RECOMMENDATION REGARDING CUSTOMER'S DRIVING ABILITY | Did recommendation of Health Care Provider and MRU nurse reviewer match? | IF NO MATCH, WHO WAS MORE FAVORABLE TO CUSTOMER? HEALTH CARE PROVIDER (HCP) OR NURSE REVIEWER (NR) |
|------------------|--------------------|---|---|---|--|---|--|---|
| 7/21/2017 | 12 | Seizures | Follow up every 5 years, approved to drive | Approved to drive, Removed from MRP | Seizure fee for greater than 4 years on meds | Y | Ν | NR |
| 7/21/2017 | 13 | Anxiety, muscle weakness | No follow up needed, approved to drive | Approved to drive, Removed from MRP | Stable, no MVAs | Y | Y | |
| 7/21/2017 | 14 | Past substance abuse, depressive disorder | No follow up needed, approved to drive | Approved to drive, Removed from MRP | Safe to drive | Y | Y | |
| 7/21/2017 | 15 | IDDM, cystic fibrosis | Follow up every 6 months | Approved to drive, Removed from MRP | Managing chronic conditions, compliant with treatment. | Y | N | NR |
| 7/21/2017 | 16 | COPD, Cardiomyopathy, Hypothyroidism | No follow up needed, approved to drive | Approved to drive, Removed from MRP | stable, no MVAs | Y | Y | |
| 7/21/2017 | 17 | Diabetic Retinopathy, IDDM | No follow up needed, approved to drive | Approved to drive, Removed from MRP | compliant with treatment | Y | Y | |
| 7/21/2017 | 18 | IDDM | No follow up needed, approved to drive | Approved to drive, Removed from MRP | stable | Y | Y | |
| 7/21/2017 | 19 | Diabetes, schizophrenia, neuropathy | Follow up in 2 years | Follow up in 2 years | MD recommendation, no MVAs | Y | Y | |
| 7/21/2017 | 20 | Diabetes, Hypertension, OA | Approved to drive, follow-up in 2 years | Additional information needed (BP) | School bus driver | Y | Ν | НСР |
| 7/21/2017 | 21 | Diabetes, CVA, Pseudophakia | No follow up needed, approved to drive | Approved to drive, Removed from MRP | stable | γ | Y | |
| 7/21/2017 | 22 | Hypertension, Macular degeneration | Follow up | Approved to drive - follow up in 2 years | stable | Y | Y | |
| 7/21/2017 | 23 | Cataracts, neuropathy | Add restrictions | Additional information needed | page 5 needed | γ | Ν | NR |

| DATE | Customer Number | Dx | RECOMMENDATION OF CUSTOMER'S HEALTH CARE PROVIDER | FINAL DECISION BY | NURSE REVIEWER Comments/Rationale | DID HEALTH CARE PROVIDER GIVE RECOMMENDATION REGARDING CUSTOMER'S DRIVING ABILITY | DID RECOMMENDATION OF HEALTH CARE PROVIDER AND MRU NURSE REVIEWER MATCH? | IF NO MATCH, WHO WAS MORE FAVORABLE TO CUSTOMER? HEALTH CARE PROVIDER (HCP) OR NURSE REVIEWER (NR) |
|-----------|--------------------|---|--|-------------------------------|---|---|--|---|
| 7/21/2017 | 24 | Dry ARM, CAD, Hypertension, Depression | HCP - no follow up, Vision specialist - follow-up | Follow up in 3 years | stable | γ | Ν | NR |
| 7/21/2017 | 25 | CHF, AHA Class II, diabetic retinopathy | Follow up | Road Test | | Y | Ν | НСР |
| 7/21/2017 | 26 | Seizures, CHF | Follow- up | Road Test | | Y | Ν | НСР |
| 7/21/2017 | 27 | ADHD | No answer | follow up every 2 years | CDL- School Bus driver | Ν | N/A | |
| 7/21/2017 | 28 | IDDM, staphyloma retina | HCP - follow up yearly, Vision specialist - no answer | Approve and remove | Class C, no MVA | Y | Ν | NR |
| 7/21/2017 | 29 | IDDM, Depression, Bilateral AKA | Follow up in 2 years | Follow up in 2 years | Class C, no MVA | Υ | Υ | |
| 7/21/2017 | 30 | Parkinson's Disease | No follow up needed, approved to drive | Approved and removed from MRP | Class C, no MVA | γ | Y | |
| 7/21/2017 | 31 | SVT, murmur | No follow up needed, approved to drive | Approved and removed from MRP | Class C, no MVA | γ | Y | |
| 7/21/2017 | 32 | TBI, Low back pain | Follow -up | Follow up in 2 years | Class C, MVA 2015 | Y | Y | |
| 7/21/2017 | 33 | IDDM | Follow up in 1 year | Follow up in 1 year | Passed Road Test, hospitalized 2016 - dehydration | Y | Y | |
| 7/21/2017 | 34 | Seizures, ETOH | Follow up in 2 years | Follow up in 2 years | Sustained remission, last seizure 5/1016 | Υ | Y | |
| 7/21/2017 | 35 | IDDM, COPD, OSA | Follow up | Follow up in 2 years | A1C 10, Class C | Y | Υ | |
| 7/21/2017 | 36 | Seizures, ETOH | No follow up needed, approved to drive | Follow up in 1 year | last seizure 1/2017, MVA x 3 | γ | Ν | НСР |
| 7/21/2017 | 37 | Depression | Follow up in 1 year | Follow up in 1 year | Passed Road Test | Y | Υ | |
| 7/21/2017 | 38 | NIDDM, Hypertension | Follow up in 2 years | Remove | DOT med card | Y | Ν | NR |

| DATE | Customer Number | Dx | RECOMMENDATION OF CUSTOMER'S HEALTH CARE PROVIDER | FINAL DECISION BY | Nurse Reviewer Comments/Rationale | DID HEALTH CARE PROVIDER GIVE RECOMMENDATION REGARDING CUSTOMER'S DRIVING ABILITY | DID RECOMMENDATION OF HEALTH CARE PROVIDER AND MRU NURSE REVIEWER MATCH? | IF NO MATCH, WHO WAS MORE FAVORABLE TO CUSTOMER? HEALTH CARE PROVIDER (HCP) OR NURSE REVIEWER (NR) |
|-----------|--------------------|--|--|---|--|---|--|---|
| 7/21/2017 | 39 | myopia | No answer | Approve and remove | Class C | Ν | N/A | |
| 7/21/2017 | 40 | Seizures; Brain Tumor resection | No answer | Approved and removed from MRP | Class C, well controlled | Ν | N/A | |
| 7/21/2017 | 41 | Seizures | 5-mile radius, no driving when tired, sick or if missed meds, 45 mph/ no highway driving | Follow up in 6 months, 5-mile radius, no driving when tired, sick or if missed meds, 45 mph/ no highway driving | seizures with loss of consciousness, last 8/2016 | Y | Ν | НСР |
| 7/21/2017 | 42 | Seizures | No follow up needed, approved to drive | Approved and removed from MRP | Nocturnal seizures, last 2015 | Y | Y | |
| 7/21/2017 | 43 | CAD | No follow up needed, approved to drive | Approved and removed from MRP | stent placement, CDL dot med card | Y | Y | |
| 7/21/2017 | 44 | Cerebral Palsy, Focal seizures | No follow up needed, approved to drive | Approved and removed from MRP | No seizures in 3 years | Y | Y | |
| 7/21/2017 | 45 | Seizures | Follow up in 2 years | Approved and removed from MRP | No seizures in 6 years | Y | Ν | NR |
| 7/21/2017 | 46 | Schizophrenia, leukemia, ETOH dependency | No answer | Follow up in 1 year | recent schizophrenia diagnosis | Ν | N/A | |
| 7/21/2017 | 47 | Seizures | No answer | Follow up in 6 months | last seizures 12/2016 | Ν | N/A | |
| 7/21/2017 | 48 | Wegener's Disease; retinal detachment | No follow up needed, approved to drive | Follow up in 2 years | Progressive Disease | Y | Ν | НСР |
| 7/21/2017 | 49 | Macular degeneration | No follow up needed, approved to drive | Follow up in 2 years | monocular vision | Y | Ν | НСР |
| 7/20/2017 | 50 | Headaches, Bursitis | No follow up | Remove from program | none | γ | Y | |

| 7/20/2017 51 Hypertension, guit No follow up Remove from program none Y Y 7/20/2017 52 Cerebral Paky No follow up Remove from program none Y Y 7/20/2017 53 Andely Retain on program Remove from program none Y N NR 7/20/2017 54 Sleep Apnea Retain on program Remove from program none Y N NR 7/20/2017 55 Atrial Fibrillation Retain on program Remove from program none Y N NR 7/20/2017 56 Atrial Fibrillation, No follow up Retain for 1 yr. Recent MVA secondary to Artrial Fibrillation, No follow up Retain for 1 yr. Recent MVA secondary to Artrial Fibrillation, 7/20/2017 58 Multiple Sclerosis No follow up Retain for 2 years progressive Neuromuscular cond. Y N NCP 7/20/2017 59 Fibromyalgia Retain on program Remove from program none Y N NR 7/20/2017 60 Cataract, Hypertension No follow up Remove from program none Y Y N 7/20/2017 61 Hypertensio | Date | CUSTOMER NUMBER | Dx | RECOMMENDATION OF CUSTOMER'S HEALTH CARE PROVIDER | Final Decision by MRU Review Nurse | NURSE REVIEWER Comments/Rationale | DID HEALTH CARE PROVIDER GIVE RECOMMENDATION REGARDING CUSTOMER'S DRIVING ABILITY | DID RECOMMENDATION OF HEALTH CARE PROVIDER AND MRU NURSE REVIEWER MATCH? | IF NO MATCH, WHO WAS MORE FAVORABLE TO CUSTOMER? HEALTH CARE PROVIDER (HCP) OR NURSE REVIEWER (NR) |
|---|-----------|--------------------|---------------------|---|---------------------------------------|--------------------------------------|---|--|---|
| 7/20/2017 53 Anxiety Retain on program Remove from program none Y N NR 7/20/2017 54 Sleep Apnea Retain on program Remove from program none Y N NR 7/20/2017 55 Hypertension, CAD Retain on program Remove from program none Y N NR 7/20/2017 56 Atrial Fibrillation, Atrial Fibrillation, Syncope No follow up Retain for 1 yr. Recent MVA secondary to A-fib Y N N HCP 7/20/2017 58 Multiple Sclerosis No follow up Retain for 2 years Progressive Neuromuscular cond. Y N N HCP 7/20/2017 58 Multiple Sclerosis No follow up Retain for 2 years Progressive Neuromuscular cond. Y N N HCP 7/20/2017 59 Fibromyalgia Retain on program Remove from program none Y Y N NR 7/20/2017 60 Hypertension No follow up Remove from program none Y Y N NR 7/20/2017 61 Hypertension No follow up Retain for 2 years none Y Y Y | 7/20/2017 | 51 | | No follow up | Remove from program | none | Υ | Y | |
| 7/20/2017 54 Sleep Apnea Retain on program Remove from program none Y N NR 7/20/2017 55 CAD Retain on program Remove from program none Y N NR 7/20/2017 56 Atrial Fibrillation No follow up Remove from program none Y Y N NR 7/20/2017 57 Low back pain, No follow up Retain for 1 yr. Retain for 1 yr. Recent MVA secondary to A-feith N HCP 7/20/2017 58 Multiple Sclerosis No follow up Retain for 1 yr. Recent MVA secondary to N N HCP 7/20/2017 59 Fibromyalgia Retain on program Remove from program none Y N NR 7/20/2017 60 Cataract, Hypertension No follow up Remove from program none Y Y Y 7/20/2017 61 Hypertension Did not answer Remove from program none Y Y Y 7/20/2017 62 Hypertension Retain on program <td>7/20/2017</td> <td>52</td> <td>Cerebral Palsy</td> <td>No follow up</td> <td>Remove from program</td> <td>none</td> <td>Y</td> <td>Y</td> <td></td> | 7/20/2017 | 52 | Cerebral Palsy | No follow up | Remove from program | none | Y | Y | |
| 7/20/201755Hypertension, CADRetain on programRemove from programnoneYNNR7/20/201756Atrial FibrillationNo follow upRemove from programnoneYY7/20/201757Low back pain, SyncopeNo follow upRetain for 1 yr.Recent MVA secondary to A-fibYNHCP7/20/201758Multiple SclerosisNo follow upRetain for 2 yearsProgressive Neuromuscular cond.YNHCP7/20/201759FibromyalgiaRetain on programRemove from programnoneYNNR7/20/201760Cataract, HypertensionNo follow upRemove from programnoneYYY7/20/201761HypertensionDid not answerRemove from programnoneNN/A7/20/20177/20/201762HypertensionRetain on programRetain for 2 yearsnoneYYYY7/20/201763HypertensionRetain on programRetain for 2 yearsnoneYYYY7/20/201764HypertensionRetain on programnoneYYYYY7/20/201766NIDOM, HypertensionDid not answerRemove from programnoneYYY7/20/201767NIDOM, HypertensionDid not answerRemove from programnoneYYY7/20/201768No follow up </td <td></td> <td>53</td> <td>Anxiety</td> <td>Retain on program</td> <td>Remove from program</td> <td>none</td> <td>Y</td> <td>N</td> <td>NR</td> | | 53 | Anxiety | Retain on program | Remove from program | none | Y | N | NR |
| 7/20/2017 S5 CAD Retain on program Remove from program none Y N NR 7/20/2017 56 Atrial Fibrillation, Syncope No follow up Remove from program none Y Y Y 7/20/2017 57 Low back pain, Syncope No follow up Retain for 1 yr. Arib Recent MVA secondary to A-fib Y N HCP 7/20/2017 58 Multiple Sclerosis No follow up Retain for 2 years progressive Neuromuscular cond. Y N MCP 7/20/2017 59 Fibromyalgia Retain on program Remove from program none Y N NR 7/20/2017 60 Cataract, Hypertension No follow up Remove from program none Y Y N NR 7/20/2017 61 Hypertension Did not answer Remove from program none Y Y Y 7/20/2017 63 Hypertension Retain on program Retain for 2 years none Y Y Y 7/20/2017 64 Hypertension Retain on p | 7/20/2017 | 54 | Sleep Apnea | Retain on program | Remove from program | none | Y | N | NR |
| 7/20/201757Atrial Fibrillation, Low back pain, SyncopeNo follow upRetain for 1 yr.Recent MVA secondary to A-fibYNHCP7/20/201758Multiple SclerosisNo follow upRetain for 2 yearsprogressive Neuromuscular cond.YNHCP7/20/201759FibromyalgiaRetain on programRemove from program nonenoneYNNR7/20/201760Catarat, HypertensionNo follow upRemove from program nonenoneYYY7/20/201761HypertensionDid not answerRemove from program nonenoneNN/A7/20/201762HypertensionDid not answerRemove from program rom programnoneYYY7/20/201763HypertensionDid not answerRemove from program rom programnoneYYY7/20/201764HypertensionRetain on program Retain for 2 yearsnoneYYY7/20/201766NIDDM, HypertensionDid not answerRemove from program Remove from program noneYNN/A7/20/201767HypertensionDid not answerRemove from program Remove from program noneYNN/A7/20/201768NIDDM, HypertensionDid not answerRemove from program Remove from program noneYNN/A7/20/201768NiDDM, HypertensionDid not answerRemove fro | 7/20/2017 | 55 | | Retain on program | Remove from program | none | Y | Ν | NR |
| 7/20/201757Low back pain, SyncopeNo follow up Retain for 1 yr.Retain for 1 yr. A-fibRecent MVA secondary to A-fibYNHCP7/20/201758Multiple SclerosisNo follow upRetain for 2 years Remove from program noneYNNMCP7/20/201759FibromyalgiaRetain on program Retain on program HypertensionRemove from program No follow upnoneYNNR7/20/201760Cataract, HypertensionNo follow upRemove from program Remove from program nonenoneYYY7/20/201761HypertensionDid not answerRemove from program Remove from program nonenoneN/AN/A7/20/201763HypertensionDid not answerRemove from program Retain for 2 years nonenoneYYY7/20/201764HypertensionRetain on program Retain for 2 years nonenoneYYY7/20/201766NIDDM, HypertensionDid not answerRemove from program Remove from program noneYYY7/20/201767NIDDM, | 7/20/2017 | 56 | Atrial Fibrillation | No follow up | Remove from program | none | Y | Y | |
| 7/20/201758Multiple ScletosisNo follow upRetain for 2 years Remove from program noneNeuromuscular cond.YNNC7/20/201760Cataract, HypertensionNo follow upRemove from program Remove from program nonenoneYY7/20/201761HypertensionDid not answerRemove from program Retain for 2 years nonenoneNN/A7/20/201761HypertensionDid not answerRemove from program Retain for 2 years nonenoneYY7/20/201762HypertensionRetain on program Retain on program Retain for 2 years nonenoneYY7/20/201764HypertensionRetain on program Retain on program Retain for 2 years nonenoneYY7/20/201765no diagnosisNo follow upRemove from program Remove from program Followed by DOTNN/A7/20/201766NIDDM, HypertensionDid not answerRemove from program Remove from program Followed by DOTNN/A7/20/201767NIDDM, HypertensionDid not answerRemove from program Remove from programFollowed by DOTNN/A7/20/201769NIDDM, HypertensionDid not answerRemove from program Remove from program Followed by DOTNN/A7/20/201770eye conditionDid not answerRemove from program Remove from program Followed by DOTNN/A7/20/201771 | 7/20/2017 | 57 | Low back pain, | No follow up | Retain for 1 yr. | A-fib | Y | Ν | НСР |
| 7/20/201760Cataract, HypertensionNo follow upRemove from program Remove from program nonenoneYY7/20/201761HypertensionDid not answerRemove from program Retain for 2 years nonenoneNN/A7/20/201763HypertensionDid not answerRemove from program Retain for 2 years nonenoneYY7/20/201764HypertensionRetain on program Retain for 2 years nonenoneYY7/20/201765no diagnosisNo follow upRemove from program Remove from program noneYY7/20/201766NIDDM, HypertensionDid not answerRemove from program Remove from program noneYY7/20/201766NIDDM, HypertensionDid not answerRemove from program Remove from program Remove from programFollowed by DOTNN/A7/20/201767NIDDM, HypertensionDid not answerRemove from program Remove from programFollowed by DOTNN/A7/20/201768no diagnosisDid not answerRemove from program Remove from programFollowed by DOTNN/A7/20/201769NIDDM, HypertensionDid not answerRemove from program Remove from program Remove from programN/AN/A7/20/201770eye conditionDid not answerRemove from program Remove from program Remove from programN/AN/A7/20/201771Seizures< | 7/20/2017 | 58 | Multiple Sclerosis | No follow up | Retain for 2 years | | Υ | Ν | НСР |
| 7/20/201760HypertensionNo tollow upRemove from programnoneYY7/20/201761HypertensionDid not answerRemove from programnoneNN/A7/20/201762HypertensionRetain on programRetain for 2 yearsnoneYY7/20/201763HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201764HypertensionRetain on programRetain for 2 yearsnoneYY7/20/201765no diagnosisNo follow upRemove from programnoneYY7/20/201766NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201767NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201768no diagnosisDid not answerRemove from programFollowed by DOTNN/A7/20/201769NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201770eye conditionDid not answerRemove from programnoneNN/A7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201772CataractDid not answerRemove from programnoneNN/A7/20/201773HypertensionDid not answer <td< td=""><td>7/20/2017</td><td>59</td><td>Fibromyalgia</td><td>Retain on program</td><td>Remove from program</td><td>none</td><td>Y</td><td>Ν</td><td>NR</td></td<> | 7/20/2017 | 59 | Fibromyalgia | Retain on program | Remove from program | none | Y | Ν | NR |
| 7/20/201762HypertensionRetain on programRetain for 2 yearsnoneYY7/20/201763HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201764HypertensionRetain on programRetain for 2 yearsnoneYY7/20/201765no diagnosisNo follow upRemove from programnoneYY7/20/201766NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201767NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201767NIDDM, HypertensionNo follow upRetain for 1 yr.CDL driverYNHCP7/20/201768no diagnosisDid not answerRemove from programFollowed by DOTNN/A7/20/201769NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201770eye conditionDid not answerRemove from programnoneNN/A7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A7/20/201773Did not answerRemove from programnoneNN/A7/20/201773Hyperopia, Pseu | 7/20/2017 | 60 | - | No follow up | Remove from program | none | Y | Y | |
| 7/20/201763HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201764HypertensionRetain on programRetain for 2 yearsnoneYY7/20/201765no diagnosisNo follow upRemove from programnoneYY7/20/201766NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201767NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201767NIDDM, HypertensionNo follow upRetain for 1 yr.CDL driverYNHCP7/20/201768no diagnosisDid not answerRemove from programFollowed by DOTNN/A7/20/201769NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201770eye conditionDid not answerRemove from programnoneNN/A7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201772CataractDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A | 7/20/2017 | 61 | Hypertension | Did not answer | Remove from program | none | Ν | N/A | |
| 7/20/201764HypertensionRetain on programRetain for 2 yearsnoneYY7/20/201765no diagnosisNo follow upRemove from programnoneYY7/20/201766NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201767NIDDM, HypertensionNo follow upRetain for 1 yr.CDL driverYNHCP7/20/201768no diagnosisDid not answerRemove from programFollowed by DOTNN/A7/20/201768no diagnosisDid not answerRemove from programFollowed by DOTNN/A7/20/201769NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201770eye conditionDid not answerRemove from programnoneNN/A7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201772CataractDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A | 7/20/2017 | 62 | Hypertension | Retain on program | Retain for 2 years | none | Y | Υ | |
| 7/20/201765no diagnosisNo follow upRemove from programnoneYY7/20/201766NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201767NIDDM, HypertensionNo follow upRetain for 1 yr.CDL driverYNHCP7/20/201768no diagnosisDid not answerRemove from programFollowed by DOTNN/A7/20/201769NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201770eye conditionDid not answerRemove from programnoneNN/A7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201772CataractDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A | | 63 | Hypertension | Did not answer | Remove from program | Followed by DOT | | | |
| 7/20/201766NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201767NIDDM, HypertensionNo follow upRetain for 1 yr.CDL driverYNHCP7/20/201768no diagnosisDid not answerRemove from programFollowed by DOTNN/A7/20/201769NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201770eye conditionDid not answerRemove from programnoneNN/A7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201772CataractDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A | | | <i>/</i> 1 | | • | | | | |
| 1/20/201766HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201767NIDDM, HypertensionNo follow upRetain for 1 yr.CDL driverYNHCP7/20/201768no diagnosisDid not answerRemove from programFollowed by DOTNN/A7/20/201769NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201770eye conditionDid not answerRemove from programnoneNN/A7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201772CataractDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A | 7/20/2017 | 65 | | No follow up | Remove from program | none | Y | Y | |
| 7/20/201767HypertensionNo follow upRetain for 1 yr.CDL driverYNHCP7/20/201768no diagnosisDid not answerRemove from programFollowed by DOTNN/A7/20/201769NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201770eye conditionDid not answerRemove from programnoneNN/A7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201772CataractDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A | 7/20/2017 | 66 | | Did not answer | Remove from program | Followed by DOT | Ν | N/A | |
| 7/20/201769NIDDM, HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201770eye conditionDid not answerRemove from programnoneNN/A7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201772CataractDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A | | 67 | , | No follow up | Retain for 1 yr. | CDL driver | Y | Ν | НСР |
| 7/20/201769HypertensionDid not answerRemove from programFollowed by DOTNN/A7/20/201770eye conditionDid not answerRemove from programnoneNN/A7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201772CataractDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A | 7/20/2017 | 68 | no diagnosis | Did not answer | Remove from program | Followed by DOT | N | N/A | |
| 7/20/201771SeizuresDid not answerRemove from programnoneNN/A7/20/201772CataractDid not answerRemove from programnoneNN/A7/20/201773Hyperopia, PseudophakiaDid not answerRemove from programnoneNN/A | 7/20/2017 | 69 | , | Did not answer | Remove from program | Followed by DOT | Ν | N/A | |
| 7/20/2017 72 Cataract Did not answer Remove from program none N N/A 7/20/2017 73 Hyperopia, Pseudophakia Did not answer Remove from program none N N/A | | 70 | eye condition | Did not answer | Remove from program | none | Ν | N/A | |
| 7/20/2017 73 Hyperopia, Pseudophakia Did not answer Remove from program none N N/A | | 71 | Seizures | Did not answer | Remove from program | none | N | 1 | |
| 7/20/2017 73 Did not answer Remove from program none N N/A Pseudophakia | 7/20/2017 | 72 | Cataract | Did not answer | Remove from program | none | Ν | N/A | |
| 7/20/2017 74 Presbyopia Did not answer Remove from program none N N/A | 7/20/2017 | 73 | | Did not answer | Remove from program | none | Ν | N/A | |
| | 7/20/2017 | 74 | Presbyopia | Did not answer | Remove from program | none | Ν | N/A | |

| Date | CUSTOMER NUMBER | Dx | RECOMMENDATION OF CUSTOMER'S HEALTH CARE PROVIDER | FINAL DECISION BY | NURSE REVIEWER COMMENTS/RATIONALE | DID HEALTH CARE PROVIDER GIVE RECOMMENDATION REGARDING CUSTOMER'S DRIVING ABILITY | DID RECOMMENDATION OF HEALTH CARE PROVIDER AND MRU NURSE REVIEWER MATCH? | IF NO MATCH, WHO WAS MORE FAVORABLE TO CUSTOMER? HEALTH CARE PROVIDER (HCP) OR NURSE REVIEWER (NR) |
|-----------|--------------------|---|---|---------------------|--------------------------------------|---|--|---|
| 7/20/2017 | 75 | Pseudophakia | Did not answer | Remove from program | none | Ν | N/A | |
| 7/20/2017 | 76 | eye condition | Did not answer | Remove from program | none | Ν | N/A | |
| 7/20/2017 | 77 | Pseudophakia | Did not answer | Remove from program | none | Ν | N/A | |
| 7/20/2017 | 78 | Seizures, Hypertension, Mitral Valve Prolapse, Anxiety | No follow up | Remove from program | none | Y | Y | |
| 7/20/2017 | 79 | AMD, Dystrophy | Retain on program | Retain for 1 yr. | none | Y | Y | |
| 7/20/2017 | 80 | eye condition | Did not answer | Retain 2 years | none | Ν | N/A | |
| 7/20/2017 | 81 | Macular Degeneration | Did not answer | Retain 3 months | none | Ν | N/A | |
| 7/20/2017 | 82 | Myopia, Astigmatism, Nystagmus, blurred vision | Did not answer | Retain 2 years | none | Ν | N/A | |
| 7/20/2017 | 83 | Macular Degeneration, Presbyopia, mixed Astig. | Retain on program | Retain 1 year | none | Y | γ | |
| 7/20/2017 | 84 | eye condition, Retinal impairment | Did not answer | Retain 2 years | none | Ν | N/A | |
| 7/20/2017 | 85 | Diab. Retinopathy | Did not answer | Retain 2 years | none | Ν | N/A | |
| 7/20/2017 | 86 | macular Degeneration | Did not answer | Retain 1 year | none | Ν | N/A | |
| 7/20/2017 | 87 | Cataract, Pseudo, Scotoma | Retain on program | Retain 2 years | none | Υ | Y | |
| 7/20/2017 | 88 | Multiple Sclerosis | Did not answer | Retain 2 years | Spasticity of legs | Ν | N/A | |
| 7/20/2017 | 89 | Seizures | Did not answer | Retain 1 year | 1X seizure and encephalopathy | Ν | N/A | |
| 7/20/2017 | 90 | Stargardts | Did not answer | Retain 1 year | stable vision | Ν | N/A | |
| 7/20/2017 | 91 | seizures, Cocaine test positive | Retain on program | Retain 1 year | Aed therapy, | Y | γ | |

| DATE REVIEWED | CUSTOMER NUMBER | Dx | RECOMMENDATION OF CUSTOMER'S HEALTH CARE PROVIDER | FINAL DECISION BY | NURSE REVIEWER Comments/Rationale | Did Health Care Provider give recommendation regarding Customer's driving ability | DID RECOMMENDATION OF HEALTH CARE PROVIDER AND MRU NURSE REVIEWER MATCH? | IF NO MATCH, WHO WAS MORE FAVORABLE TO CUSTOMER? HEALTH CARE PROVIDER (HCP) OR NURSE REVIEWER (NR) |
|------------------|--------------------|---|---|----------------------------------|---|---|--|---|
| 7/20/2017 | 92 | hypertension, Hyperopia | No follow up | Retain 3 months | SB driver with HTN and elevated systolicBP | Υ | Ν | НСР |
| 7/20/2017 | 93 | Cataracts, Nystagmus, Hypertension, COPD | No follow up | Retain 2 years | D/t Cataract affects that may affect driving /sensitivity to contrasts and glare | Y | Ν | НСР |
| 7/20/2017 | 94 | Hyperopia, Astig, Presbyopia, Retinal Detachment, IDDM, A-Fib | No follow up | Retain 2 years | Retaining due to decreasing Visual Field | Y | Ν | НСР |
| 7/20/2017 | 95 | Macular Degeneration | Did not answer | Retain 1 year | none | Ν | N/A | |
| 7/20/2017 | 96 | Pseudophakia | No follow up | Retain 1 year | none | Y | Ν | НСР |
| 7/20/2017 | 97 | CHF/SSS/ AICD | Retain on program | road test | d/t motor vehicle accident | У | Ν | НСР |
| 7/20/2017 | 98 | hypertension, Myopia | No follow up | need additional medical info | none | Υ | Ν | НСР |
| 7/21/2017 | 99 | туоріа | No answer | Approved and removed from MRP | Class B | Ν | N/A | |
| 7/21/2017 | 100 | Hyperopia | No answer | Approved and removed from MRP | Class C, no MVA | Ν | N/A | |

Table 9: Sample Set Data

APPENDIX D: AAMVA SURVEY RESPONSES

Question 3 Key:

- TNP Trained non-medical personnel
- D Doctor, e.g. medical, optometric, chiropractic
- N Nurse
- M Mid-level health professional, e.g. nurse practitioner, physician assistant

| | AK | AR | CA | CO | FL | GA | HI | ID | IL | IN |
|---|-----|-----|-----|-----|--------|--------|-----|-----|-----------|----|
| Question 1 Before the Medical unit of in your state or jurisdiction makes a decision on whether to allow a driver to continue driving unrestricted driving, drive with restrictions, or cancel the license: Do you ask the driver's treating physicians to send you medical evidence (medical records, blood tests, eye exams, etc.)? | Y/N | N | Y | N | Y | Y | N | Y | Y | Y |
| Question 2 Do you ask the driver's treating physician to give recommendations regarding the driver's ability to drive without restrictions, drive with restrictions, or cancelling the license? | Y/N | N | Y | Y | Y | Y | Y | Y | Ŷ | Y |
| Question 3 Who reviews the treating physician's medical evidence and recommendations (check all that apply) | TNP | TNP | TNP | TNP | TNP, D | TNP, D | TNP | TNP | TNP, N, D | D |
| Question 4 Do you ALWAYS follow the treating physician's recommendations in the final disposition on the driver's ability to drive without/with restrictions or cancellations? | Y | Y | N | γ | N | N | Y | N | N | N |
| Question 5 Are their times when the final DMV decision regarding the driver's driving privileges is different from the recommendations of the treating physician? | N | Ν | Y | N | Y | Y | Y | N | Y | Y |

| | LA | MD | ME | MI | МО | MS | MT | ND | NE | NH |
|---|--------|-----------|--------|-----|-----|-----|-----|-----|--------|-----|
| Question 1 Before the Medical unit of in your state or jurisdiction makes a decision on whether to allow a driver to continue driving unrestricted driving, drive with restrictions, or cancel the license: Do you ask the driver's treating physicians to send you medical evidence (medical records, blood tests, eye exams, etc.)? | Y | Y/N | Y | Y | Y | Y | Y | Y | Y | Y |
| Question 2 Do you ask the driver's treating physician to give recommendations regarding the driver's ability to drive without restrictions, drive with restrictions, or cancelling the license? | Y | Y | Y/N | Y | Y | Y | Y | Y | Y | Y |
| Question 3 Who reviews the treating physician's medical evidence and recommendations (check all that apply) | TNP, D | TNP, N, D | TNP, M | TNP | TNP | TNP | TNP | TNP | No Ans | TNP |
| Question 4 Do you ALWAYS follow the treating physician's recommendations in the final disposition on the driver's ability to drive without/with restrictions or cancellations? | N | N | N | N | Y | Y/N | N | Y/N | Y/N | Y/N |
| Question 5 Are their times when the final DMV decision regarding the driver's driving privileges is different from the recommendations of the treating physician? | Y | Y | Y | Y | N | N | Y | Y | Y/N | Y/N |

| | NJ | NM | NY | ОН | OR | RI | SC | SD | ТХ | VA |
|---|-----|--------|--------|-----|--------|--------|-----|-----|----|-----|
| Question 1 Before the Medical unit of in your state or jurisdiction makes a decision on whether to allow a driver to continue driving unrestricted driving, drive with restrictions, or cancel the license: Do you ask the driver's treating physicians to send you medical evidence (medical records, blood tests, eye exams, etc.)? | Y | Y | Y | Y | Y | Y | Y | Y | N | Y |
| Question 2 Do you ask the driver's treating physician to give recommendations regarding the driver's ability to drive without restrictions, drive with restrictions, or cancelling the license? | Y | Y | Y | Y | Y/N | Y | Y | Y | Ν | Y |
| Question 3 Who reviews the treating physician's medical evidence and recommendations (check all that apply) | TNP | TNP, D | TNP, D | TNP | TNP, D | TNP, D | TNP | TNP | D | N/D |
| Question 4 Do you ALWAYS follow the treating physician's recommendations in the final disposition on the driver's ability to drive without/with restrictions or cancellations? | N | Y/N | Y/N | Y | N | No Ans | N | Y/N | N | N |
| Question 5 Are their times when the final DMV decision regarding the driver's driving privileges is different from the recommendations of the treating physician? | Y | Y/N | Y | N | Y | N | Y | Y/N | Y | Y |

| | WA | WI |
|---|-----|--------|
| Question 1 Before the Medical unit of in your state or jurisdiction makes a decision on whether to allow a driver to continue driving unrestricted driving, drive with restrictions, or cancel the license: Do you ask the driver's treating physicians to send you medical evidence (medical records, blood tests, eye exams, etc.)? | Y | Y |
| Question 2 Do you ask the driver's treating physician to give recommendations regarding the driver's ability to drive without restrictions, drive with restrictions, or cancelling the license? | Y | Ŷ |
| Question 3 Who reviews the treating physician's medical evidence and recommendations (check all that apply) | TNP | TNP, D |
| Question 4 Do you ALWAYS follow the treating physician's recommendations in the final disposition on the driver's ability to drive without/with restrictions or cancellations? | Y | N |
| Question 5 Are their times when the final DMV decision regarding the driver's driving privileges is different from the recommendations of the treating physician? | N | Y |

Table 10: AAMVA Survey Responses