

Comments of the Center for Economic Justice

To the NAIC Accelerated Underwriting (A) Working Group

Regarding Draft "Regulatory Guidance and Considerations"

April 14, 2023

The Center for Economic Justice ("CEJ") offers the following comments on the draft "Regulatory Guidance and Considerations" for Alerated Underwriting in Life Insurance.

CEJ appreciates the efforts of the windkgroup to identify and address consumer protection issues withmsurers' use of big data, algorithmans artificial intelligence — collectively referred to as Accelerated Undativing ("AU"). We recognize the difficulty in carrying out your charge because of the constantifying responsibilities that touch on AU that have been assigned to a variety of differential groups and committees at the NAIC.

To an outsider, it appears to be allsomer with AU issues going from the Life Actuarial Task Force in 2016 to, in no particulander, the Life Insurance Committee, the Big Data Working Group, the H Committee, the Metriconduct Annual Statement Blanks Working Group and perhaps others. We suspect that this of movement of AU-related responsibilities around the NAIC has made your work more difficus you try to stay in your lane while respecting the work of other group. The destion, in the draft guidace document, of the related work of other NAIC entities reflects this of tured approach – nearly two full pages of the five-page document describe potential-related activities of other NAIC groups.

While we continue to appreciate the AU Welforts, the draftegulatory guidance document unfortunately provides littregulatory guidance. In elfive-page document, the first page is an introduction. Page and 3 discuss the work of hear NAIC groups. The regulatory guidance provided is limited to the last two page of the document and much of this is not actually guidance. Page 4 consists largelycon siderations without eference to statutory authority and without guidance floow to address these considerations. At the bottom of page 4 onto page 5, the draft provides neveral descriptions of hings to do, but, again, fails to link these regulatory requests to statutory than it regarding when and how ask the questions. In addition, many of the terms used in expectation and questions are undefined.

The two pages of regulatory guidance in the total essentially the same general issues of concern raised in 2016 at the Life Actuarialsk Force and raised continuously since at each of the NAIC groups through which AU has migrate the draft regulator guidance provides no references for further information, despites to the total transfer of the two pages.

Below, CEJ offers for the AU WG's considetion substantivægulatory guidance — guidance that would provide a clerand map based on statutory thaurities to examine insurers' AU practices and show how to examine issues guilatory concern. Unuded in the guidance are specific referrals to the Market Regulatiand Consumer Affairs (D) Committee, marked with a footnote. We ask the AU WG to reseithe draft referrato the Market Conduct Examination Standards Guidelines Working Groupeflect the suggestions in the proposed revised draft regulatory guidance. Pleasefsetnotes 5, 6, 7, 9 and 11 in the proposed regulatory guidance document for proposed referrals to the D Committee.

Finally, we request the AU Woold an interactive meetingith stakeholders, as is the norm for working groups deverbing regulatory guidance. Examples include the detailed discussion of stakeholder comments at the Restring Mechanisms and Privacy Protections working groups, among many others past and continuation of stakeholders, but provided beholders with an understanding of why regulators decide to accept or retiparticular recommendations.

Thank you for your consideration.

<u>Proposed Guidance for Regulatory Oversight oLife Insurers' Accelerated Underwriting</u> Practices

Foundation

This section provides foundational informatiand concepts to provide the basis for the guidance to regulators that follows.

What is Accelerated Underiting in Life Insurance?

The NAIC Accelerated Underwriting Wiking Group ("AU WG") developed an educational paper, subsequently adopted by ifted in a April 2022. The educational paper provides the fwing definition / description of Accelerated Underwriting ("AU")

Accelerated underwriting (AU) is the use body data, artificial intelligence, and machine learning to underwrite life insurance in an expedited manner. The process generally uses predictive models and chine learning algorithms to analyze applicant data, which may include the cust non-traditional, non-medical data, provided either by the applicant directly obtained through external sources. The process is typically used to place all or part of additional underwriting in life insurance and to allow some applicants to have certain medical requirements waived, such as paramedical and fluid collection.

AU as a Continuum of Big Data and Airtifal Intelligence ("AI") Practices

Insurers' use of big datalgorithms and AI runs along continuum from speeding up traditional underwriting through automated processed access to third party data sets to replacing traditional underwriting completelythwalgorithms and non-traditional data. On one end of the continuum, the insurer may speedhe underwriting and pricing process by obtaining data from third party sources insteatom the consumer in an application.

For example, instead of asking a consumberual their prescription drug use, the insurer might access a third party prescription databassetead of obtaining a consumer credit report to review for financial distress and analysis, the insurer might about a credit score based on the consumer's credit information.

 $^{^{1} \, \}underline{\text{https://content.naic.org/sites/default/files/indiffiles/AUWG\%20DRAFT\%2034-22\%20for\%20SNM_0.p} \\ \underline{\text{page 2.}}$

The foundation of traditional underwriting hasen – and continues to be – mortality tables that review many decades of insurerihisurance experience. These tables have historically been developed byet/Society of Actuaries, subjetct approval and adoption by the NAIC's Life Actuarial Task Force (and beequent adoption by parent committees).

Over time, some of the manual underingtprocesses were automated or semiautomated, but still remain part of a traditibuaderwriting approach — analyzing the same information, but getting it from sources otherwith applicant and/or analyzing the traditional information in more granular detail to allowegater use of predictive models to produce greater segmentation among consumers — i.e., more price levels.

With new sources of data and advancedyatics, some insurerseinsurers and vendors developed new approaches to underwriting — Attlat replace some or all of traditional underwriting data with different types of information. But since there is no set of mortality tables associated with these new sources of itlatanot possible to analyze, say, 50 years of mortality experience with the new data. Composently, some AU applications are based on predicting what the traditional nderwriting outcome would be apposed to directly predicting mortality.

The distinction between an AU algorithm developed on the basis of actual mortality experience versus one developed on the basisedicting or replicating the traditional underwriting result is significantly a regulator seeks surance that an insurer's underwriting is producing actuarial fair outcomes, then the reflevoutcome to analyze is ortality. The fact that an AU algorithm faithfully mirrors the outcomes of traditional undervriting is, at best, a proxy for actuarial fairness and deserves casefultiny to ensure the traditional underwriting results were not biased on eithautuarial or protected class basis.

Regulatory Authority

Regulatory oversight of insurers' use of Adpresents both a continuation of traditional regulatory responsibilities and ove

 Information and Data Requests: Regulatorse broad authority to request information form regulated entities. This authority orks well for information maintained by the insurer or the insurer's agents third parties acting under authority of the insurer (such as a third party administrator), but be problematic for third party vendors supplying data or algorithms fetire insurer's AU practices.

Regulators may ask third party providers data and algorithms for information and many are willing to respond to regulatory requests. For example, vendors providing credit-based mortality scores we indicated a willingness share information with regulators – just as these same dors do with credit-based surrance scores for auto and home insurance.

However, some third-party vendors of dated algorithms may not be willing to provide the information sought by regulators. It tabsence of information from third party vendors prevents the regulator from ensurable insurer's compliance with statutory requirements, then the regulator may necessary to disapproving or disallowing a particular insurer practice or algorithm us the and until the relevant third party vendors provide the information needed by the regulator.

- <u>Unfair Discrimination on the Basis of Protect@bass Status</u>: Mostates have laws in place that prohibit insurers, including lifesiurers, from discriminating on the basis of protected class characteristic he protected class characteristic typically include race, religion and national origin, but mainclude other characteristics.
- Unfair Discrimination on An Actuarial Basis Most states require that insurers treat
 similarly situated consumers the same, rinegathat any difference in treatment of
 consumers for underwriting, pricing or chast settlement must be based on sound
 actuarial analysis and reflect difference in the expect costs to transfer of risk. If
 there is no actuarial basis for treating sumers differently, those consumers have
 experienced unfair discrimination.
- <u>Unfair and Deceptive Trade Practice</u>: For life insurance, unfair discrimination prohibitions are often found in unif trade practices statutes regulations. In addition, the unfair trade practices regularly authority may be used address deceptive and misleading practices by insurer his is particularly relevantor issues of disclosure and consent for the insurers to collect, unsued share personal consumer information.

Unfair Discrimination Definitions

With the advent of new data sourcestadaining, and AI generating new models and algorithms used by insurers, there is increassed intial for some datand models to reflect, perpetuate or amplify historical discriminationarticularly discrimination on the basis of race.

Regulators need precise definitions for different types of unfair discrimination to ensure a consistent understanding acrossmakeholders and to facilitatensistent regutery analysis and treatment. Using the protectel ass characteristic of race:

Disparate Intent is intentional use of race to discrimate in any aspect of the insurance life cycle. Regulators hope and believe **life**tinsurers no longer **es**race explicitly for underwriting, pricing, claims settleent or antifraud activities.

Proxy Discrimination means disproportionate racialtownes tied to the use of proxies for race, not to outcomes. The data sourcadgorithm is actually predicting race and not the insurance outcome.

Disparate Impact means disproportionate racial outroes tied to historic discrimination and embedded in insurance outcomes. The dataes is ucorrelated to race, but also predicts the insurance outcome because the racial dispatrion is baked into the insurance outcomes.

Regulatory guidance for how to useste definitions is provided below.

Dark Patterns

Dark Patterns is a term useddtescribe digital manipulation.

"Dark patterns are user interface techniques that benefit an online service by leading consumers into making decisions they might not otherwise make. Some dark patterns deceive consumers, while others exploit cognitive biases or shortcuts to manipulate or coerce them into choices that are not in their best interests."

"As documented in several research studies, consumers may encounter dark patterns in many online contexts, such as when making choices to consent to the disclosure of personal information or to cookies, when interacting with services and applications like games or content feeds that seek to capture and extend consumer attention and time spent, and in e-commerce, including at multiple points along a purchasing journey".²

² https://freedom-to-tinker.com/2022/08/10/recommendations-for-updating-the-ftcs-disclosure-guidelines-to-combat-dark-patterns

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"At their core, dark patterns are a specific type of choice architecture in website and app design that interfere with user autonomy and choice. Dark patterns modify the presentation of choices available to users or manipulate the flow of information so that users make selections that they would not otherwise have chosen—to their own detriment and to the benefit of the website or app provider. Hallmarks of dark patterns include imposing asymmetric burdens to achieve competing choices, restricting the choices available at the same time (or at all), and hiding information or presenting information deceptively." 3

A business seeking to obtain a commer report must do the following:

- Disclose the business's interprotation a consumer report
- Obtain the consumer's consectobtain the consumer report
- Use the consumer report only for permitted uses
- Protect the consumer's persal consumer information

Getting Started

Lay of the Land Information Requests

Regulators should start with taleand information requests abd life insurers to get information about life insurers' use of bigtalealgorithms, models and AI – all of which comprise AU.

Information Request 1: Data Sources and Uses: This request should go to all life insurers with the following information requests:

- Date of Report
- Data Type –What is the Data?
- Source of Data Consumer via Applicati Consumer via Wearable Device or other internet-connected device, Insurer Internal, Third Party, Other
- FCRA Compliant Yes or No
- Use Category Marketing, Underwritingli@fibility/Terms), Pricing, Claims, Anti-Fraud, Risk Prevention, Loss Mitiman, Consumer Relations/Retention
- Models Utilizing These Data Which of thresurer's' models utilize this data type

With this information, the regulator capaickly assess the state of AU in your jurisdiction. A best practice would be, following the initial repring by insurers, to require insurers to provide updates every six months fiftying any changes from previous report.

Based upon this initial reviewhe regulator may want togdideeper by asking insurers about their AU algorithms identified in Data Sources and Uses reports.

Information Request 1A – Algorithms and Models: This information request provides the regulator with information to ke the deeper dive into AU models:

- Date of Report
- Name of Model or Algorithm
- Internally Developed of hird Party Algorithm
- If Third Party, Name of Vendor
- Date First Deployed
- Date Current Version Deployed

⁵ The detailed development of this information request has been referred to the Market Regulation and Consumer Affairs (D) Committee.

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- Current Version Number
- Purpose(s) of Algorithm (Marketing,rlderwriting, Pricing, Claims Settlement, Antifraud, Risk Mitigation Partnership, Other)
- Data Inputs, Sources of Data Inputs (Consumsurer, Third Party, Other) and whether Data are FCRA-compliant (subject to FCRA requirements).
- Unfair Discrimination Test Results
- Actions Taken to Address Unfabiscrimination Test Results
- Consumer Complaints Arising from Use of the Model (since last report)
- Actions Taken with Respect to theoldlel to Address Consumer Complaints
- Results of Tests to Ensure Model is Performing as Intended
- Actions Taken in Response to Testing of Actual Model Performance

Disclosure and Consent for Collection and Use of Personal Consumer Information

Regulators expect that insurers' AU practice to be transparent and fair to consumers. Transparency requires meaningful disclosure of personal information the insurer intends to collect or has already collected the opportunity for the consumer to consent to specific uses by the insurer. This transparency require and disclosure to the consumer as well as a meaningful opportunity to decline somelbof the data collection and uses proposed by the insurer.

With AU – and, more generally, with moregidial applications andonsumer interactions – the issue of dark patterns ogidial manipulation takes centeage. When a consumer goes to a life insurer's web site and seeks to obtain ate, does the digital interface clearly disclose what personal consumer information will be obtain with the consumers' consent and without the consumers consent? Does the digital interface it straightforwal for the consumer to identify and decline data uses not estimate to the insurance transaction?

Information Request 2: Privacy Policies and Screenshots of Disclosure and Consent Architecture for Collection and Use of Personal Consumer Information⁷

- Privacy Policies (Text)
- Screenshots of Disclosure of Renal Consumer Information Collected
- Screenshots of Consumer Consent Architecture

⁷ The detailed development of this information request and guidance for identifying dark patterns has been referred to the Market Regulation an@onsumer Affairs (D) Committee

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"TransUnion recently evaluated the predictipower of court record violation data (including criminal ad traffic violations)

"Also, as court records are created when the local line into violations beyond those that ultiment end up on the MVR—such as violation dismissals, violation downgrades, aprel-adjudicated copen tickets."

It did not take the recent murders of Blackmericans by police to recognize that this "criminal history score" will reflect historic discrimination in policing against Black Americans and perpetuate that discrimination in insuran Consider policingecords in Ferguson, Missouri.

US DOJ Investigation of the Ferguson Police Department

Ferguson's approach to law enforcement breflects and reinforces racial bias, including stereotyping. The harms of Fergin's police and court practices are borne disproportionately by African Americans, and the ex evidence that this is due in part to intentional discrimination on the basis of race.

Protected Class Unfair Discrimination Analysis Straightforward an Particularly Suited to Insurance.

The insurance industry has **the**ecise skill set needed **itd**entify and eliminate proxy discrimination and minimize disparate impact.

Let us revisit proxy discrimination and dispter impact forms of protected class unfair discrimination. Proxy Discrimination occurs when predictive factor odata source is actually predicting race and not the intendent come. The result is unnecessary racial bias because the predictive factor is not, in factoredicting the outcome. Sinptoxy discrimination violates both the actuarial and protected class versions of udfacrimination, the partidar factor or data source should be discarded.

Disparate Impact occurs when the insurance outcomes are racially-biased because the racial bias in embedded inchinsurance outcomes. For explen certain health conditions disproportionately impact African American distoric residential property redlining is associated with a variety disproportionate health impts on communities of color.

It is important to distinguish between proxiscrimination and disparate impact. With proxy discrimination, insurers have or shobate interest in stopping this unnecessary discrimination.

Disparate impact, however, requires a policy ision based on equity

Unfair Discrimination – Regulatory Data Collection and Independent Testing

In addition to reviewing insurers' settlesting of the AU algorithms for unfair discrimination, regulators should also collectingular consumer market outcome data for independent regulator testing here are several reasons foodependent regulator testing in addition to insurer self-testing. First, modelsn't always perform as intended. While an insurer model may not intend to produce raciallysed results, the outcomes may, in fact, be racially biased in a manner that can be preventeninimized. Second, regulators can utilize a common testing method across all insurer readdutcomes to produce metrics comparable across insurers. Third, trust but verify. Insutesting may be flawed. Fourth, the aggregate industry results may show racial bias evein dividual insurer resulted not. Fifth, testing based on data containing final quotes — inclgdioth policies issuedhel not issued — provides insight into potential bias marketing algorithms.

Information Request 3 – Granular Consumer Market Outcome Data – These data should include a record for each final life insuraquete with all the risk chracteristics utilized by the life insurer. Eachecord will include, among other this, whether the quote resulted in policy issuance and demographic informational the applicant collected by the insurer.

The AU WG has identified three possibletions for the Market Regulation and Consumer Affairs (D) Committee to consider inveloping detailed specaltions and approaches for this information request

- Revise the current life insurance Specialized Request developed for market conduct examinations;
- Revise the Market Conduct Annual Statement;
- Supplement Life Insurance reporting for prineip based reserving. Life insurers will be reporting granular sales and claims datthteoNAIC pursuant to the PBR valuation manual sections VM 50 and VM 51.
- Develop a separate statistical plan for **life**urance and appoint a statistical agent to collect the data from insurers on behall the regulations. This approach would eliminate the need for the Life Insurance MCAS.

Regulatory Testing for Unfair Bicrimination Using Granular Consumer Market Outcome Data

As noted above, there are well-accepted metbothssting for protected class bias. One common approach is to add a deltement to each consumer market outcome data to infer the

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inferring a race to individual consumer marketopoute records. A commonly used approach is the Bayesian Improved First Name Surmannd Geocoding (BIFSG) method which uses

Biometric Information

Biometrics refers to the measurement and stituted analysis of a individual's physical and behavioral characteristics. The technology canted with biometrics has many uses but frequently is used to verify personal ident to analysis of physiological haracteristics include: DNA, fingerprints, face, hand, ties or ear features, and od to behavioral characteristics include gestures ice, typing rhythm, and galit.

Facial recognition is the most common foothbiometrics and, as discussed above, has been identified and racially biased. Other algorithms either used or marketed to life insurers include biometric analysis of videnterviews or assessing the triutlness of an policant or the biological age of the applicant. New algorithms score consumers based on how they fill in / complete online forms.

Regulators should quickly identify any biometata sources and algorithms used by life insurers and require the insured demonstrate that any use octsudata or algorithms are fair and not unfairly discriminatory.

Criminal Histories and Criminal Histy Scores / MotoVehicle Records

Regulatory concern with criminal histories of criminal history scores was discussed above. Some life insurer AU models utilize they records – moving violations, for example – in AU models. Because of documented bias lincipag, regulators should require insurers to demonstrate that their AU models that their autilithese data sources do not produce unfairly discriminatory outcomes

Other AU data sources and algorithms that raise cular concern about unfair discrimination and for which regulators should require insume demonstrate that sence of unfair discrimination include:

- Consumer Lifetime Value Scores
- Fraud or Propensity for Fraud Scores
- Social Media
- Telematics / Wearable Devices

¹³ https://www.jacksonlewis.com/sites/delt/files/docs/IllinoisBIPAFAQs.pdf

¹⁴ The NAIC hosted an event on fabrecognition and racial bias i**02**1. Regulators may want to view a recording of that session for background on the issue.

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Availability of AU Products

Another issue for regulators toonsider with AU is whether all consumers have the same access to AU life insuranceroducts. Analysis of informatin request 3: Granular Consumer Market Outcome Data enables regulators to the return whether AU products are being sought by or offered to consumers from all communities.