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## FACT SHEET

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### **CMS Artificial Intelligence Health Outcomes Challenge** *Updated June 2019*

The Centers for Medicare & Medicaid Services (CMS) Artificial Intelligence Health Outcomes Challenge is a three-stage competition to accelerate artificial intelligence solutions. Participants are being asked to develop artificial intelligence solutions to aid in better predicting health outcomes such as unplanned hospital and skilled nursing facility admissions and adverse events for potential use by the Innovation Center in testing innovative payment and service delivery models under the authority of section 1115A of the Social Security Act (42 U.S.C. 1315a). CMS is collaborating with the American Academy of Family Physicians (AAFP) and the Laura and John Arnold Foundation to award up to \$1.65 million to selected participants during the three stages of the Challenge.

**The Goals of the Challenge** - The CMS Artificial Intelligence Health Outcomes Challenge is an opportunity for innovators to demonstrate how artificial intelligence tools, such as deep learning and neural networks, can be used to predict unplanned hospital and skilled nursing facility admissions and adverse events. Solutions would have the potential to be used by the Innovation Center in testing innovative payment and service delivery models under the authority of section 1115A of the Social Security Act. The Challenge prioritizes explainable artificial intelligence solutions to help front-line clinicians understand and trust artificial intelligence-driven data feedback to target scarce resources and improve the quality of care.

**The Challenge Structure** - The Challenge consists of three stages.

- During the *Launch Stage*, participants will submit an application via [ai.cms.gov](http://ai.cms.gov) and provide information about their proposed solution. Up to 25 participants will be selected to advance to Stage 1.
- During *Stage 1*, participants will design and test their proposed solution using certain Medicare claims data sets. Up to seven participants will be selected to advance to Stage 2 and will each be awarded up to \$60,000.

- During *Stage 2*, finalists will be able to request additional Medicare claims data and refine their solutions. The grand prize winner in Stage 2 will be awarded up to \$1 million and the runner up will be awarded up to \$230,000.

**Challenge Timing** - The Challenge will run for approximately one year. The Launch Stage will run from March 2019 through June 2019. Stage 1 will run from summer 2019 – winter 2019. Stage 2 will run from winter 2020 through spring 2020 and the winner will be announced in May 2020. (Dates are subject to change.)

**For More information** - Learn more about the CMS Artificial Intelligence Health Outcomes Challenge at [ai.cms.gov](https://ai.cms.gov). To read the official public announcement for the Challenge, visit [go.cms.gov/AI](https://go.cms.gov/AI).