



MINISTERIO
DE FOMENTO



AGENCIA ESTATAL
DE SEGURIDAD AÉREA



EASA: “New tools for the appropriate AME’s oversight and evaluation of physical results”.

ECAM 2018, Prague, September 2018

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- 6th European Congress of Aerospace Medicine.
- I have no financial relationships to disclose.
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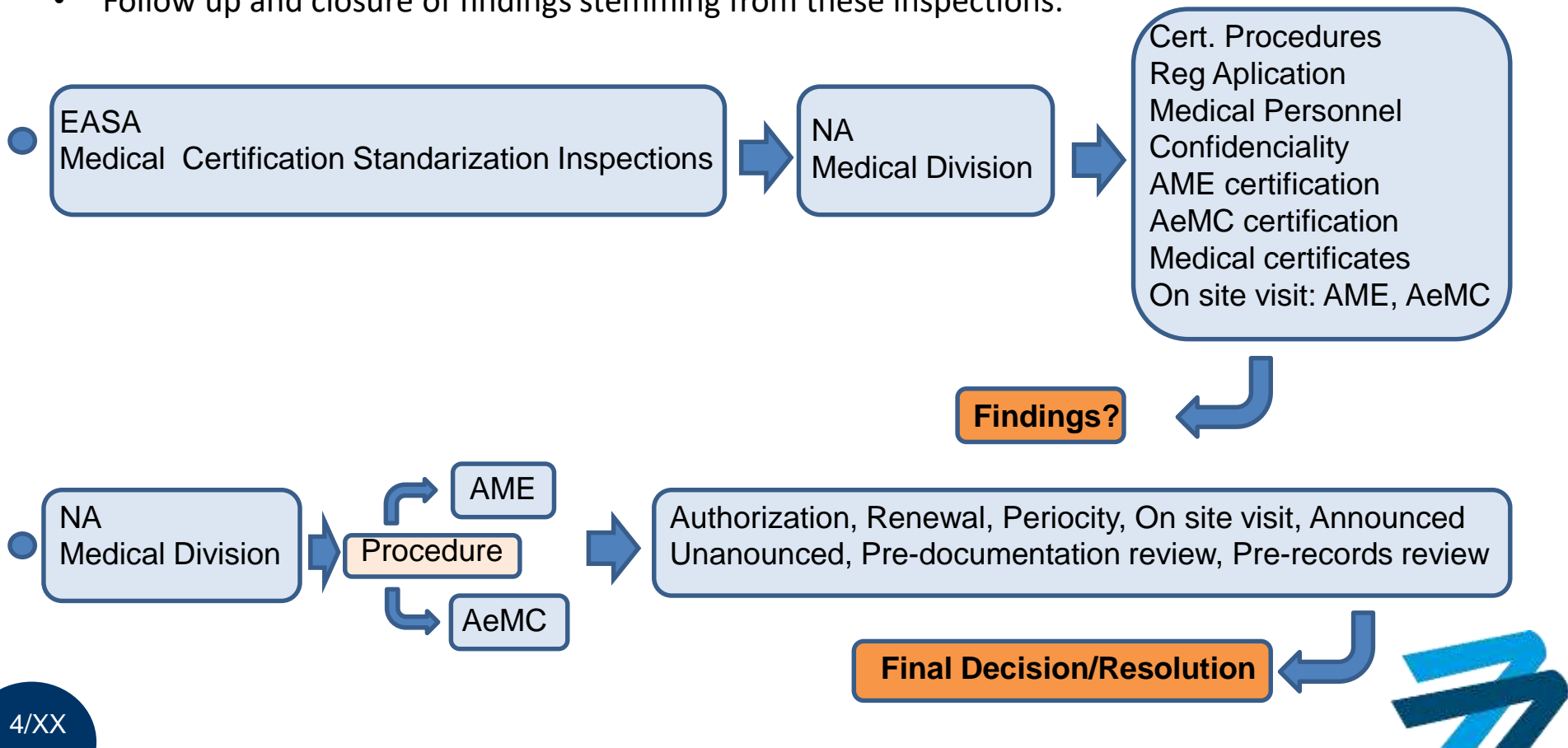
- EASA establishes standardization inspections annual or multianual in order to take into account emerging risks stemming from its continuous monitoring activities.
- National Authorities must maintain and update, the information collected from the comprehensive and focus inspections for the purpose of adequate monitoring, provide corrective actions and evidence of implementation of the agreed corrective actions.



OVERSIGHT

This approach entails four major components:

- Collect information
- Analyse and prioritise
- Act as appropriate and
- Follow up and closure of findings stemming from these inspections.



Most of EASA Member States already developed commercial or selfmade computerized systems to handle the process of issuing or denied medical certificates.



Documents

Document search

Patient search

AeMC Management

List

AeMC authorization

License Transfer

Pre-inspection check

Close



Record management/corrections

License consult

Statistics

AME Management

AME authorization

Documents

Documents

Tech support





Analyze the two main roles of National Authorities (NA):

- **Oversight of AME's and AeMC's**
 - Need of systems to be able to analyze the collection of data bases, provided by AME's, AeMC's.
 - To establish the adequate interface with the corresponding Aeromedical Authorities.
- **Management of medical exams.**

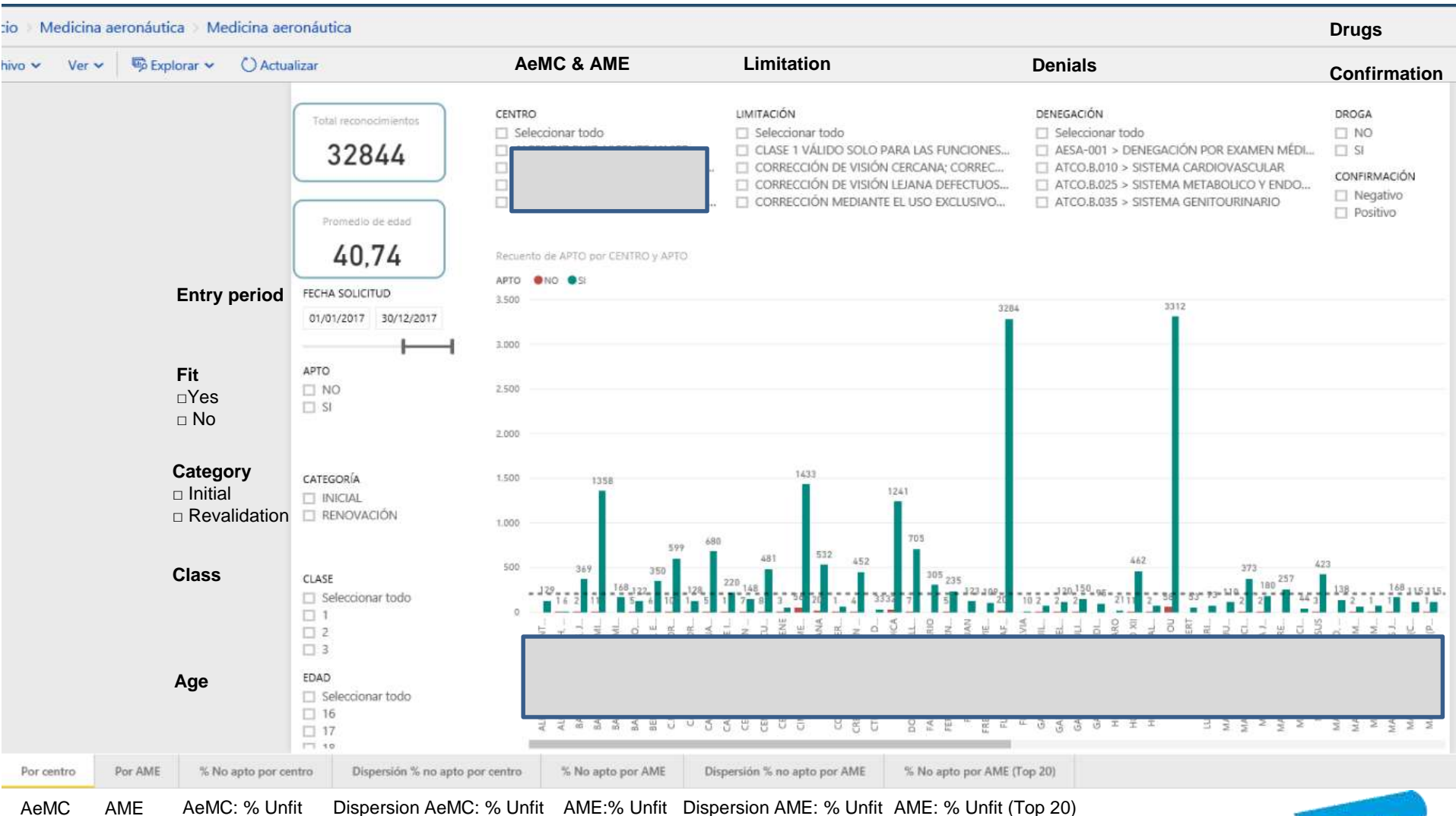
Purpose of analysis → seek two main objectives:

1. Evaluation of the health status of the aviation community.
2. To assess the number of established deviations of physical results once the mean and threshold baseline has been determined.



- AESA data base collection of physicals provided by AeMC's and AME's during 2017.
- Analysis by a system so called "Control Panel".
- Review situation of EASA MS: Survey.





Survey to all EASA MS

- Computer based
- Share data base with AME
- Tech Support
- Documents
- Management of not National Records
- SOLI
- AME performance
- AME referrals
- AME list of Referrals

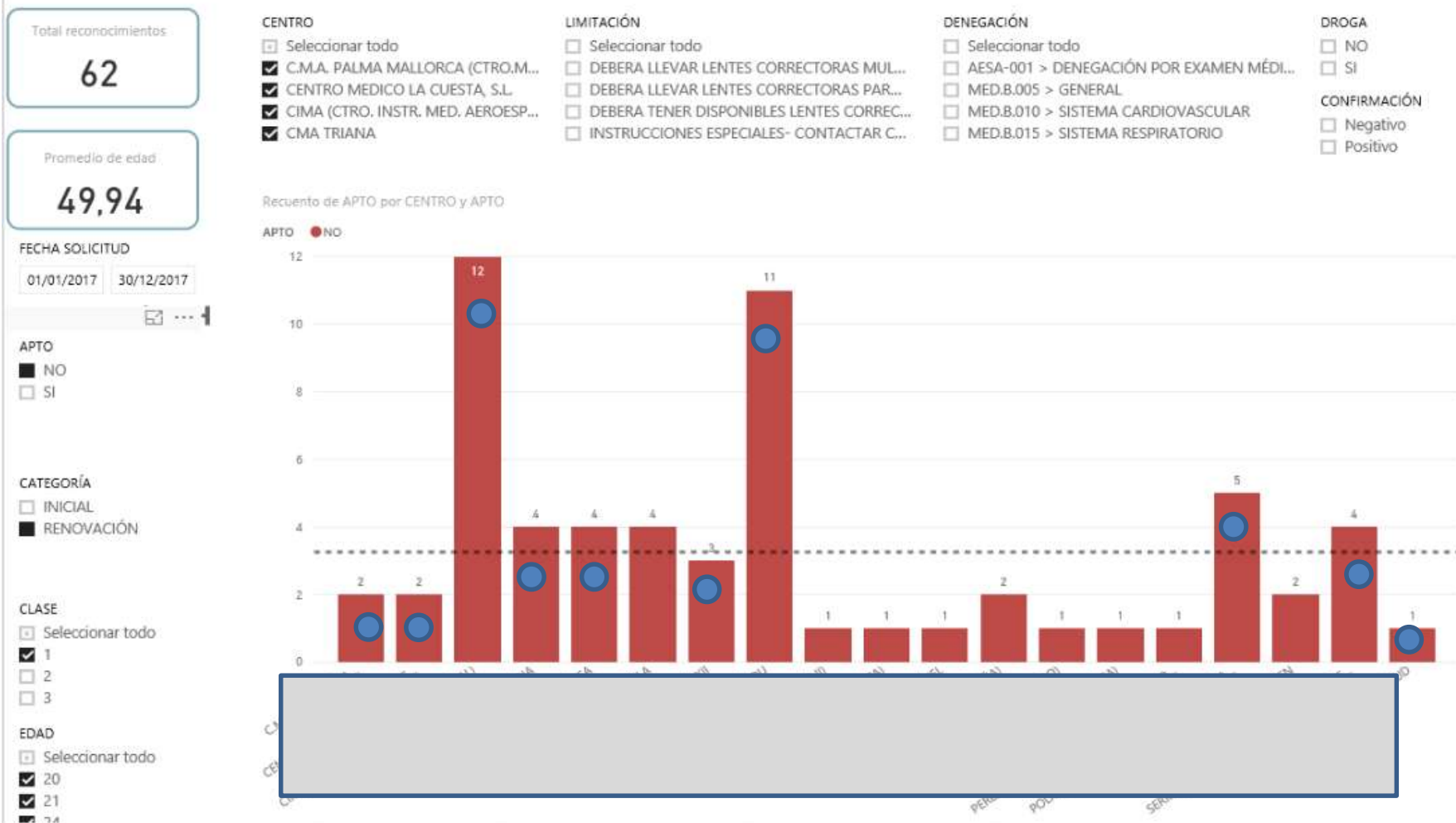


AME: Aeromedical Disposition



Total number of denials: Class 1 periodicals

Total Class 1 periodicals Exams: 11.037



C-V: Not fit to fly, periodical exams

Total Class 1 periodicals Exams: 11.037

Total reconocimientos

14

Promedio de edad

51,64

FECHA SOLICITUD

01/01/2017 30/12/2017

APTO

■ NO

CATEGORÍA

☐ INICIAL☒ RENOVACIÓN

CLASE

☐ Seleccionar todo☒ 1☐ 2

EDAD

☐ Seleccionar todo☒ 20☒ 35☒ 40

CENTRO

☐ Seleccionar todo

LIMITACIÓN

☐ Seleccionar todo☐ DEBERA LLEVAR LENTES CORRECTORAS MUL...☐ DEBERA LLEVAR LENTES CORRECTORAS PAR...☐ INSTRUCCIONES ESPECIALES- CONTACTAR C...

DENEGACIÓN

☐ Seleccionar todo☐ AESA-001 > DENEGACIÓN POR EXAMEN MÉDI...☐ MED.B.005 > GENERAL☒ MED.B.010 > SISTEMA CARDIOVASCULAR☐ MED.B.015 > SISTEMA RESPIRATORIO

DROGA

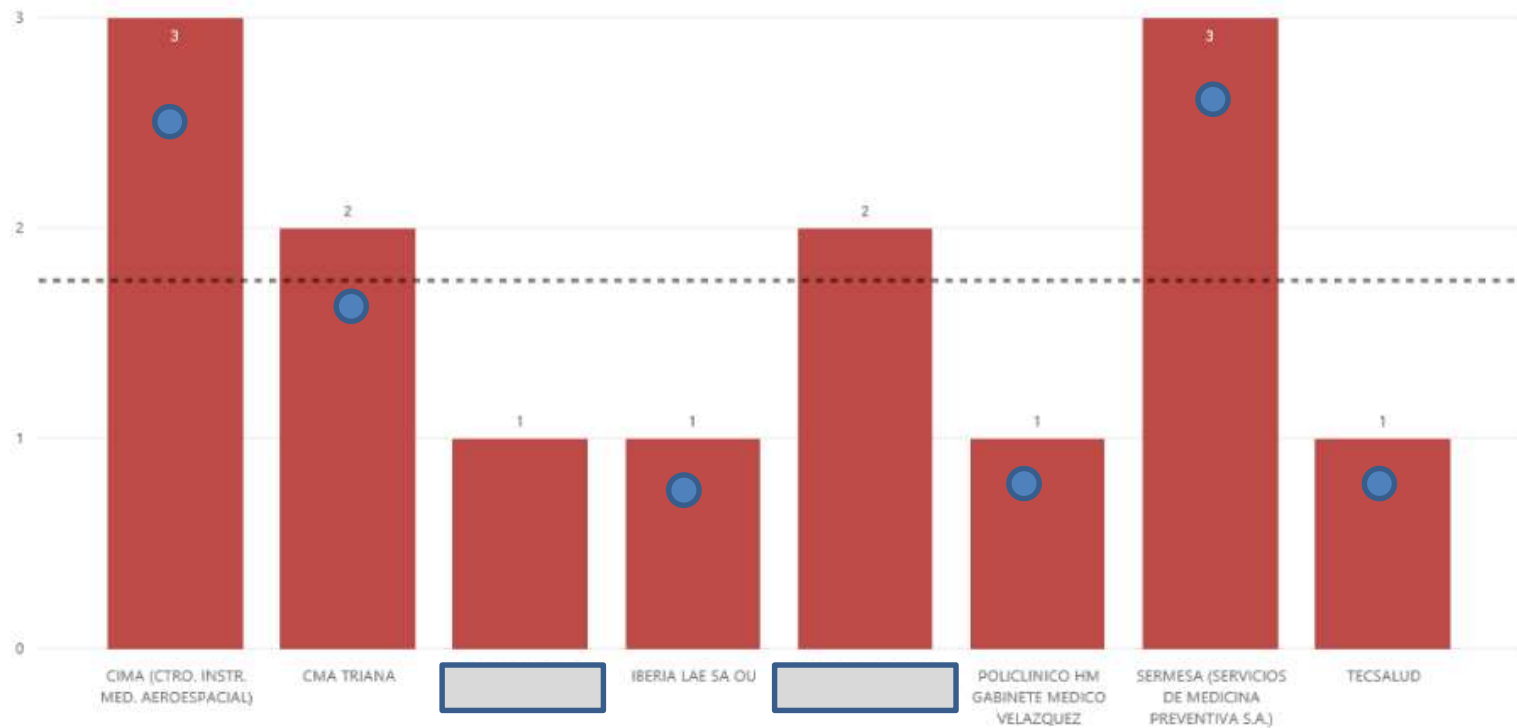
☐ NO

CONFIRMACIÓN

☐ Negativo

Recuento de APTO por CENTRO y APTO

APTO ● NO



Metabolic & Endocrine System: Not fit to fly, periodical exams.

Total Class 1 periodicals Exams: 11.037



Psychiatry Not fit to fly, periodical exams.

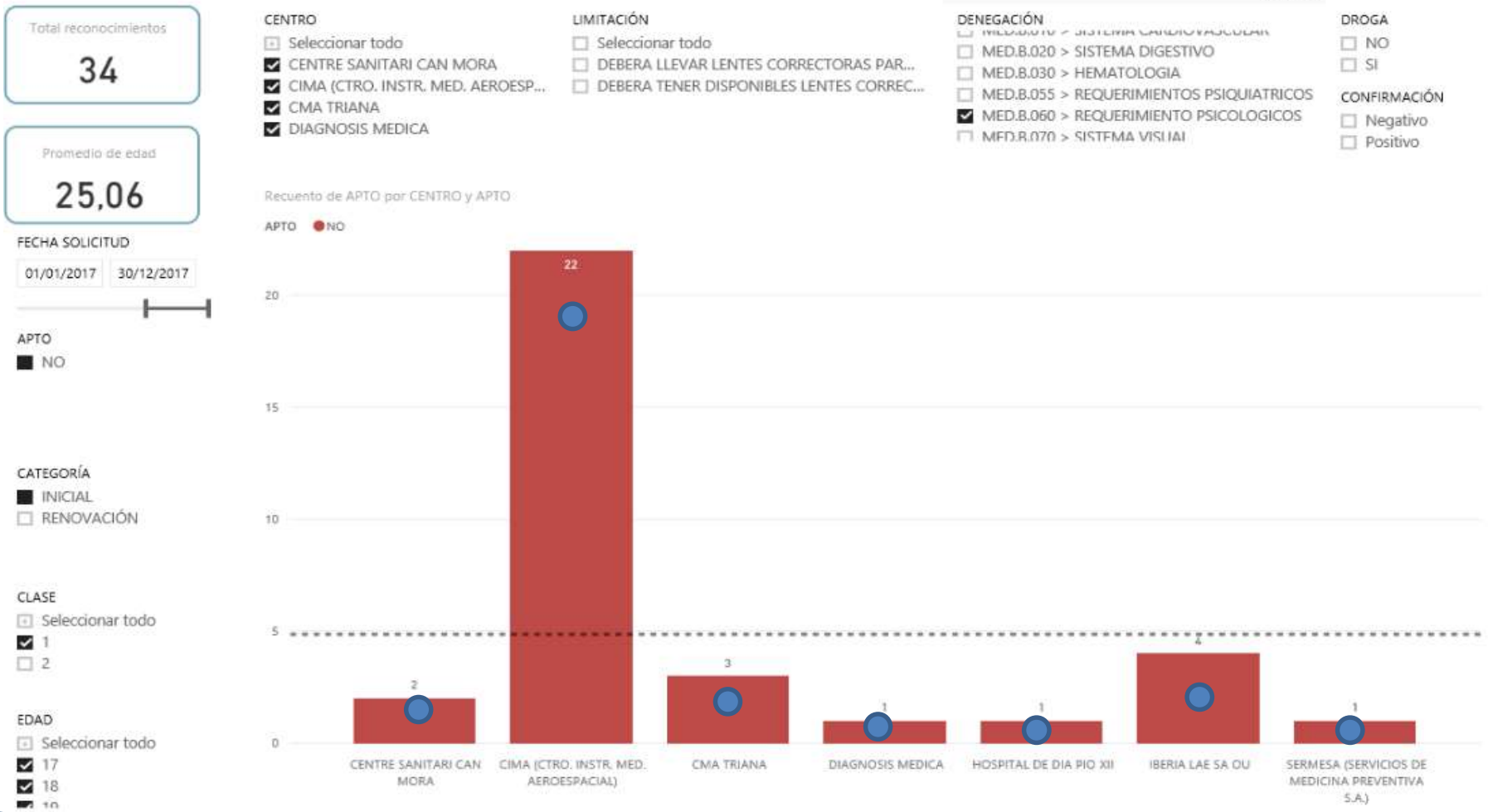
Total Class 1 periodicals Exams: 11.037



Psychology Not fit to fly, **Periodical exams.**

Psychology Not fit to fly, Initial exams.

Total Class 1 Initial Exams: 959



Visual System Not fit to fly, **Periodical exams.**



ENT Not fit to fly, periodical exams.

Total Class 1 periodicals Exams: 11.037

Total reconocimientos

3

Promedio de edad

54,67

FECHA SOLICITUD

01/01/2017 30/12/2017

APTO

☐ NO

CATEGORÍA

☐ INICIAL

☒ RENOVACIÓN

CLASE

☐ Seleccionar todo

☒ 1

EDAD

☐ Seleccionar todo

☒ 48

☒ 57

☒ 60

CENTRO

☐ Seleccionar todo

☐ CIMA (CTRO. INSTR. MED. AEROESP...

☐ CMA TRIANA

☐ IBERIA LAE SA OU

LIMITACIÓN

☐ Seleccionar todo

☐ DEBERA LLEVAR LENTES CORRECTORAS MUL...

☐ DEBERA TENER DISPONIBLES LENTES CORREC...

DENEGACIÓN

☐ MED.B.060 > REQUERIMIENTO PSICOLOGICOS

☐ MED.B.065 > REQUERIMIENTOS NEUROLOGIC...

☐ MED.B.070 > SISTEMA VISUAL

☒ MED.B.080 > OTORRINOLARINGOLOGIA

☐ MED.B.090 > ONCOLOGIA

DROGA

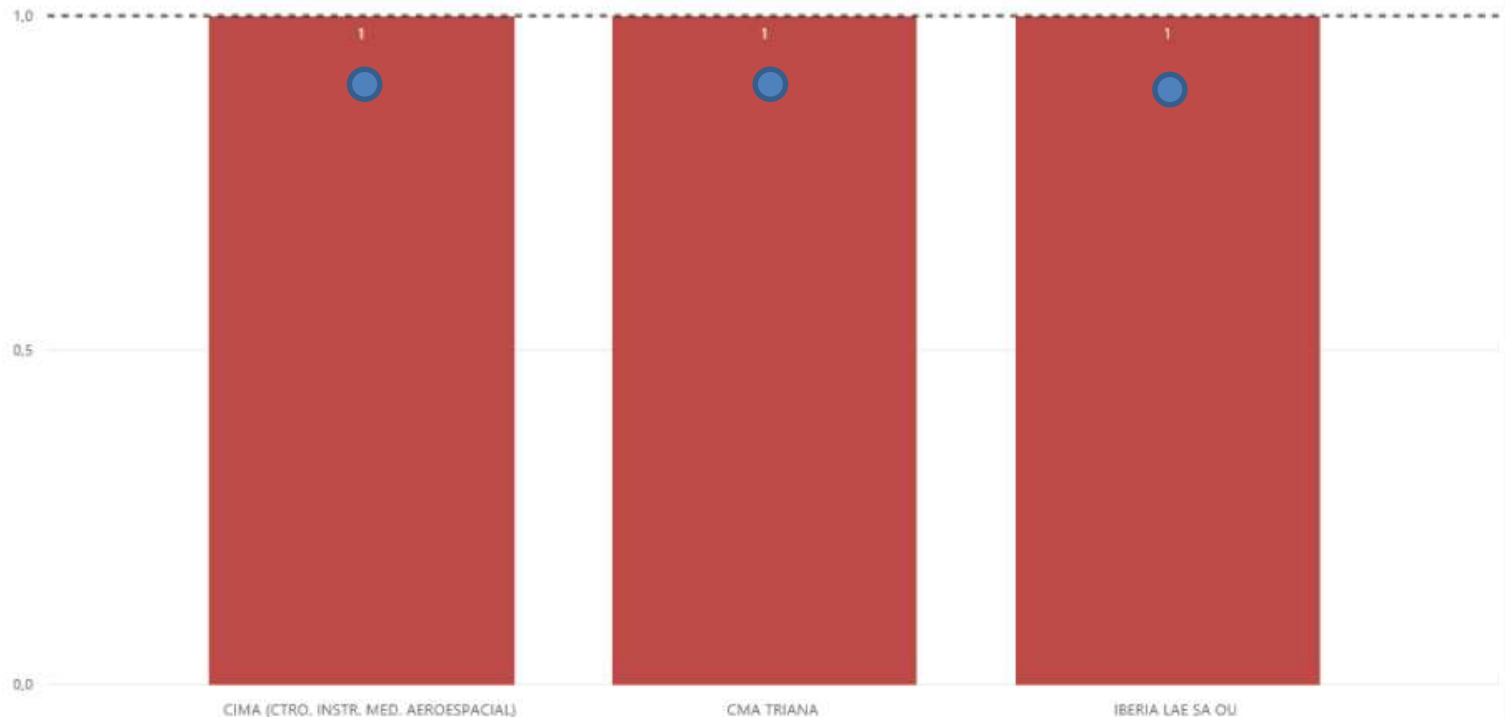
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CONFIRMACIÓN

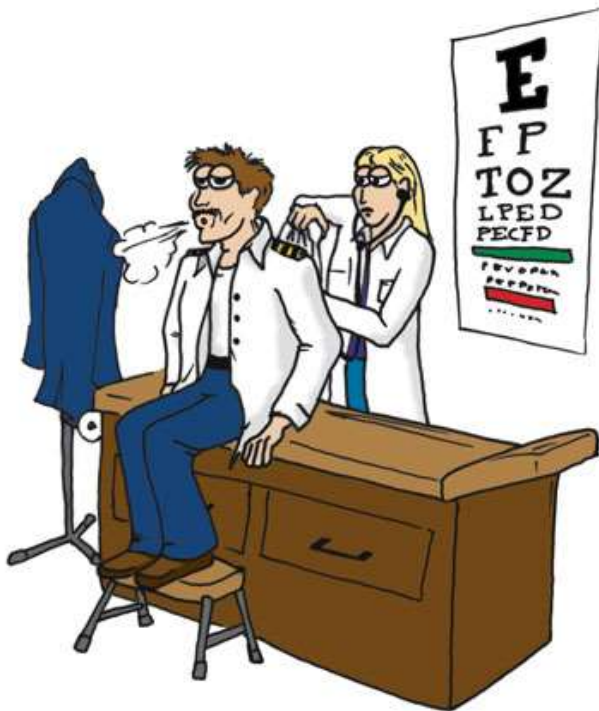
☐ Negativo

Recuento de APTO por CENTRO y APTO

APTO ● NO



AME/AeMC: Performance



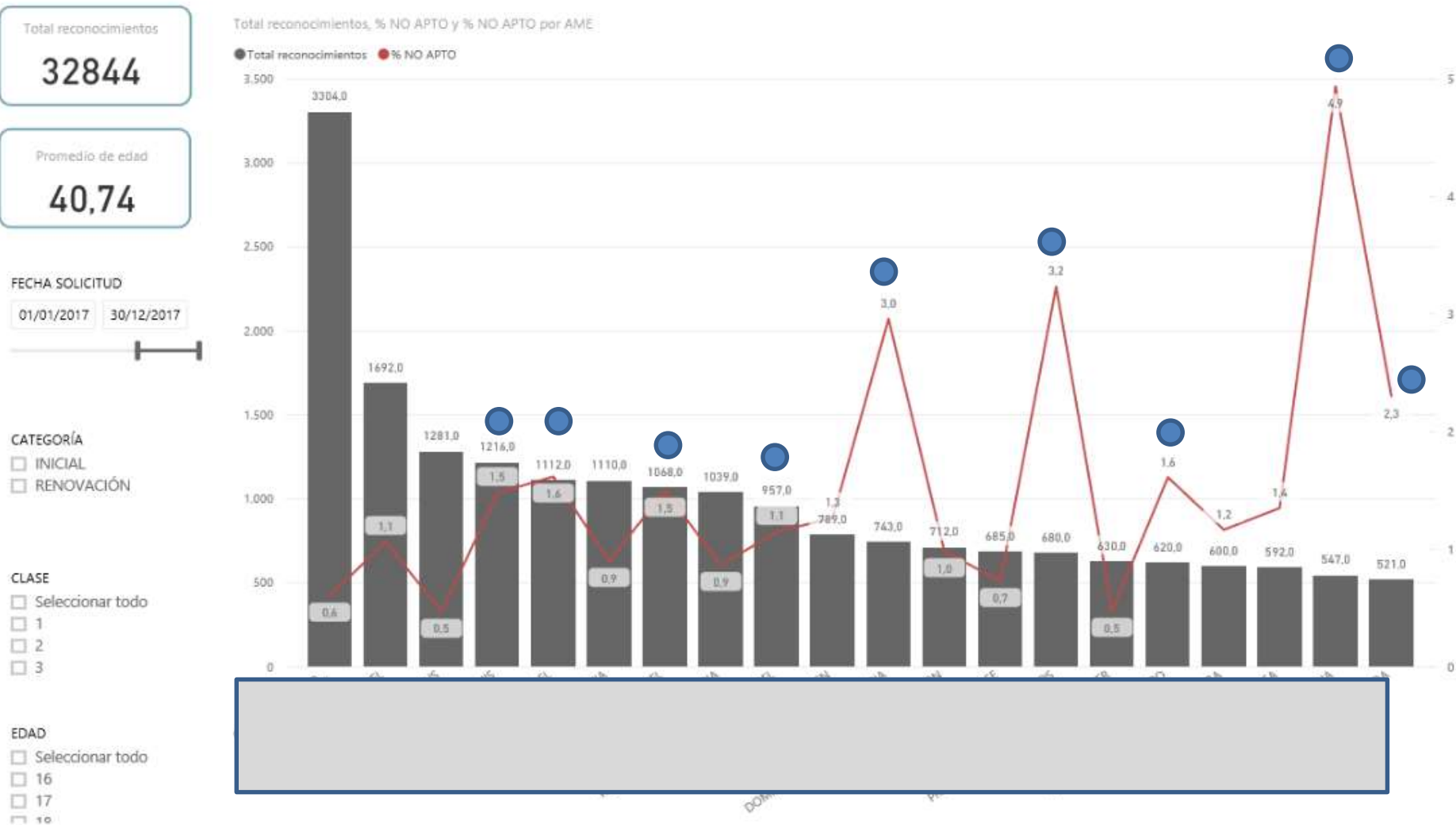
AME



AeMC



Top 20 by number of physicals: number of physicals against denials

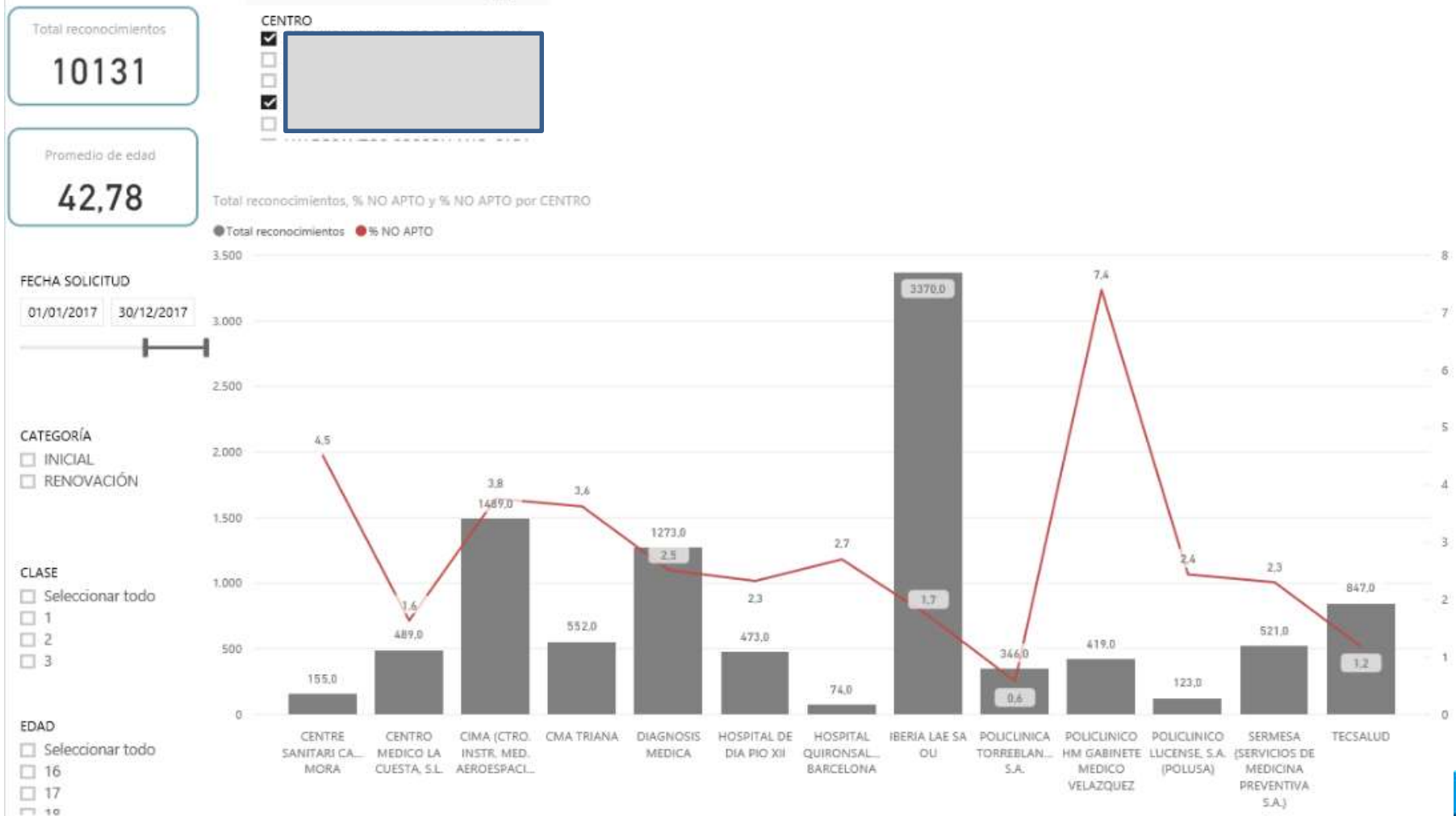


Initial Exams: Fit vs Denials



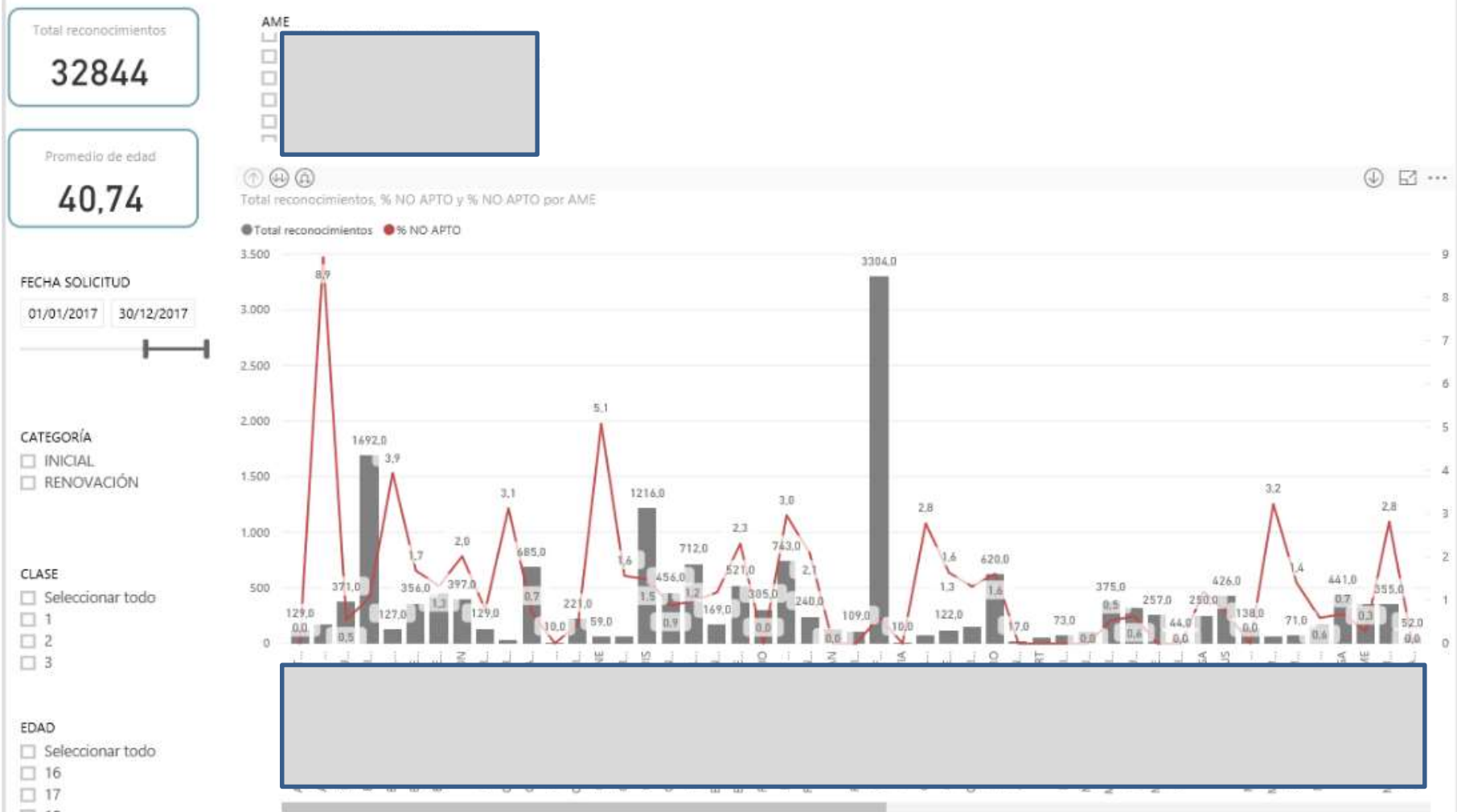
AeMC's: number of physicals vs denials: **Class 1**

37 denials out of 10.131 physicals: 0.37% of Denials



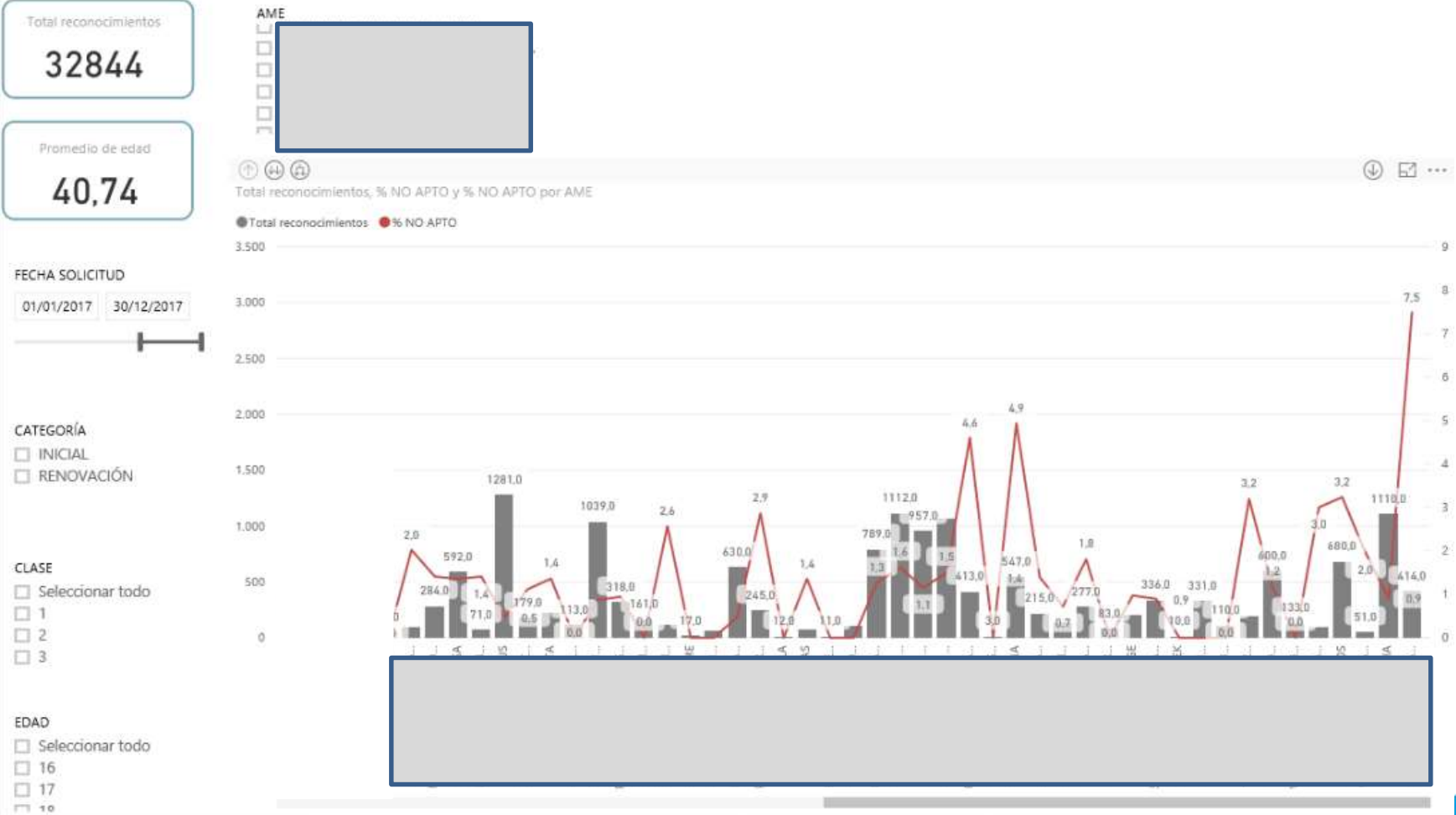
Number of physicals vs denials 1

113 of denials out of 32.844 physicals: 0,34% Denials: Total number of exams

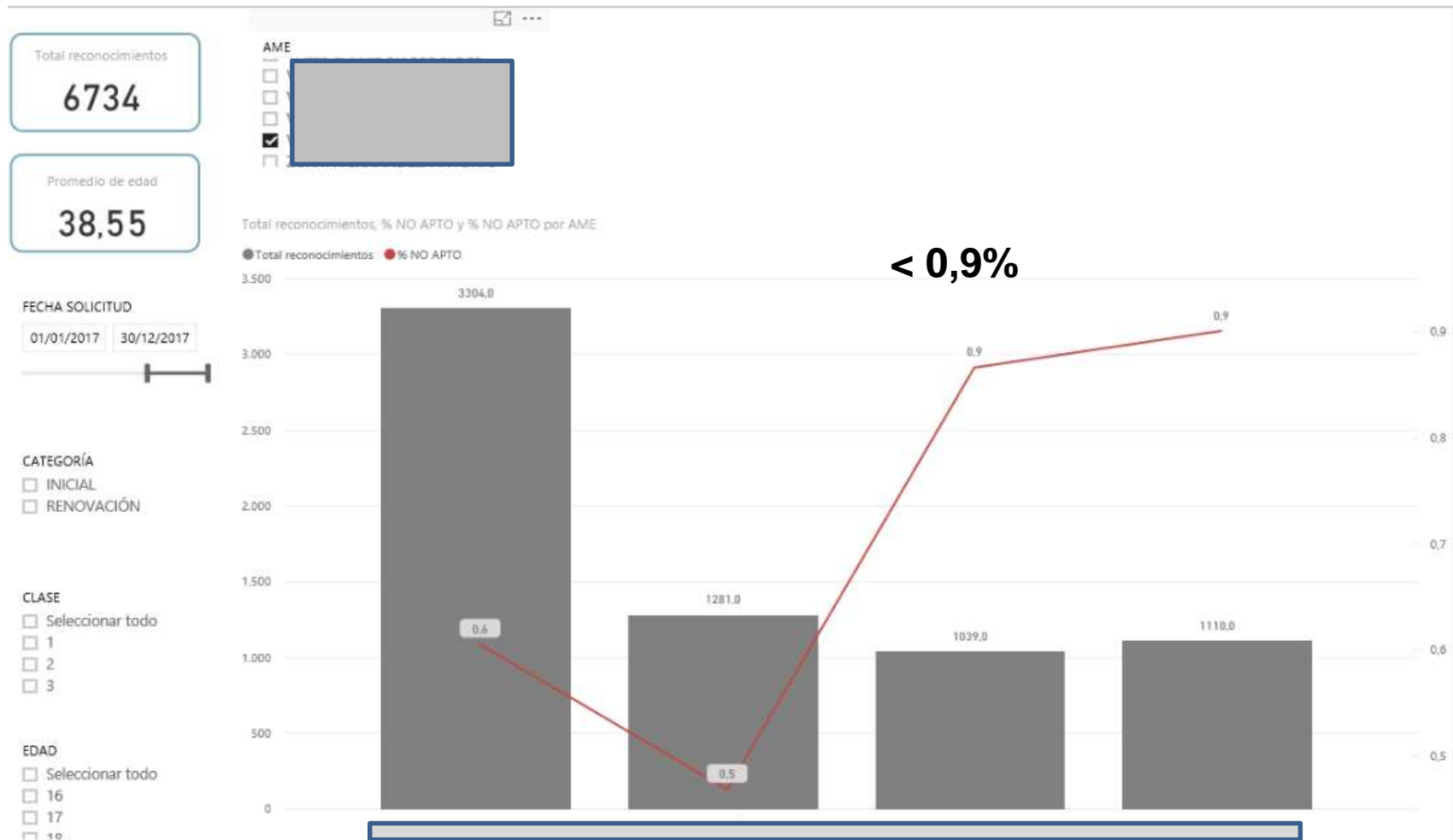


Number of physicals vs denials 2

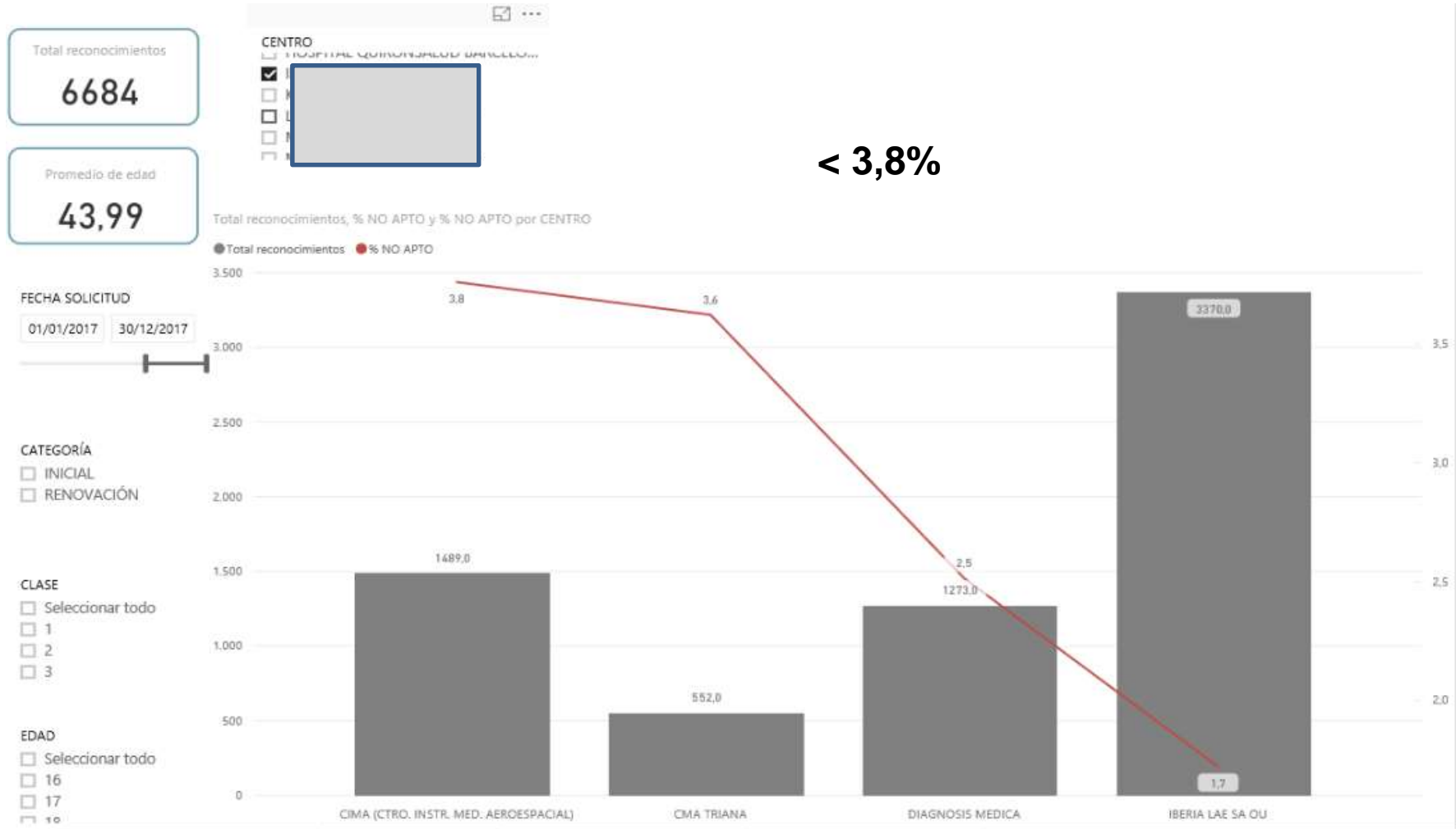
113 denials out of 32.844 physicals: 0,34 Denials: total number of exams



Individual AME performance: Number of physicals vs denials, threshold deviation.



Single AeMC performance: Number of physicals vs denials, threshold deviation.



EASA Member States Aeromedical Management System

Survey distributed to all MS

- 18 answers
- Computer based: **13** (1 set but not working yet)
- Type:
 - Customized: **6**
 - EMPIC-MED: **7**
- Documents:
 - Application Form + Med. Exam: 13
 - Especialist Report: 11
 - Suspension Form: 8
 - Denied Form: 11
 - Medical Certificate: 14
 - PDF files: 13
 - Historic data: 11
 - Automatic date of AME expiration authorization: **5**
- Management of Non National Records: **6**
- Management of SOLI: **3**
- AME Performance: 10
- AME Referrals: 8
- AME list of Referrals: **5**



1.Oversight:

- Complex process.
- Difficult task by traditional “on site” visit due to number of periodical visits.

2. Computer applications for oversight purposes it is a useful tool.

3. Identification of potential “customer retention”.

4. Specialist exam might be a factor for clinical findings.

5. Clear deviation of denials towards AeMC’s against AME’s.

6. Most MS do have computer systems applications.

7. Just a few MS have full capabilities for computer supported oversight.





Thanks for your Attention

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