Acquired Hemophilia A (AHA) – Trends in Frequency and Treatment Patterns in Germany

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Objective

- The acquired hemophilia A (AHA) is an extremely rare, but potentially lifethreatening bleeding disorder, induced by autoantibodies against coagulation factor VIII.
- AHA causes potentially very severe trauma-induced or spontaneous bleedings.
- New and successful therapies had been launched in the last decade.
- Awareness measurements by professional societies, but also pharmaceutical industry pushed awareness of the disease in Germany.
- Here we examine trends in frequency and demographics of AHA diagnosed cases and their treatment based on German hospital billing data.

Methods

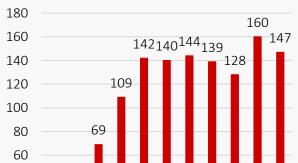
- Reports from 2010-2021 had been reviewed from:
 - German DRG-Institute (Institut f
 ür das Entgeltsystem im Krankenhaus, InEK)
 - German statistical office (*Statistisches Bundesamt*, DESTATIS)
 - German hospital quality reports by the joint federal committee (Gemeinsamer Bundesausschuss, G-BA)
- Data were analyzed for AHA cases and treatment
- Analysis with Microsoft-Excel[®] and Access[®] 2019.

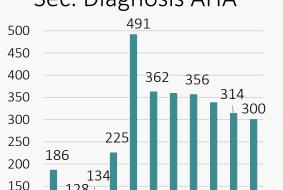
Results

- Cases coded as main or secondary diagnosis of AHA (D68.31, ICD10-GM) increased from 215 per year (2010) to 633 (2015; +294%) and decreased thereafter to 447 (2021; +208% vs. 2010).
- Changes in the use of factor products from 2019 to 2021 included:
 - Activated prothrombin complex concentrate (APCC, FEIBA®) from 12.1% to 7.3%
 - Recombinant factor VIIa (rFVIIa, NovoSeven[®]) from 48.5% to 44.1%
 - Recombinant factor VIII (rFVIII, human or porcine, several brands) from 21.8% to 24.5%
 - Plasma-derived factor VIII 17.5% to 14.7%
 - Emicizumab (Hemlibra[®])
 0% to
 9.4%.

Main Diagnosis AHA



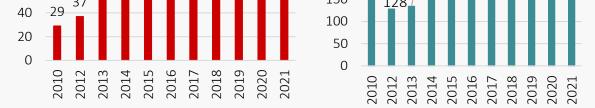




- Comorbidity and complication levels (PCCL) and length of hospital stay differed with treatments (means): APCC, PCCL 3.1, length of stay 31 days; rFVIIa: 2.5, 29 days; rVIII: 2.1, 21 days; pVIII 1.8, 30 days; emicizumab: 2.1, 34 days.
- Gender distribution (58.9% male) remained stable over time, extremes 2010: 54.4% male and 2016: 61.3% male.
- The average length of hospitalization decreased slightly from 22.3 days (2010) to 19.2 days (2018; -14%). Age groups between age of 60 and 90 had average lengths of stay between 20 and 24 days.
- Median age increased from 73 (2014) to 77 (2018).
- Analysis of living place of patients revealed higher hospitalization rates in states with higher rate of hemophilia centers

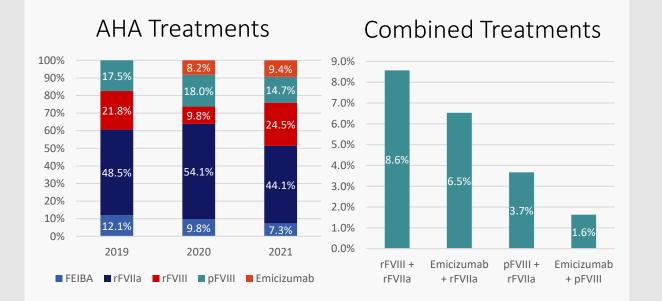


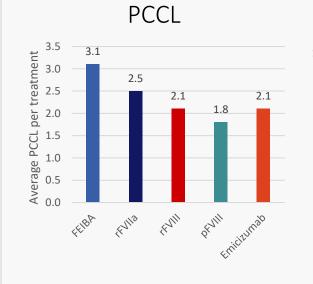
Age Distribution AHA



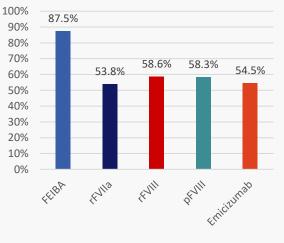


■ Main Diagnosis ■ Sec. Diagnosis





Male gender



Conclusions

- The success of awareness campaigns increased the number of hospital cases with AHA in Germany.
- The number of cases per year has remained >400 since 2015.
- The use of emicizumab increased to about 10% of cases, whereas other treatments have changed only slightly since 2019.
- Length of hospital-stay and complexity of cases vary by treatment modality. These findings warrant further investigation in the national registry

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