SAT-0592

BACKGROUND

- Acromegaly is a rare, slowly progressive, acquired disorder resulting from excessive growth hormone (GH) production.¹⁻³
- About half of acromegaly patients require treatment after surgery. If treatment goals are not met, multiple modalities or medications may be required. Guidelines regarding treatment sequencing are vague, and little is known about the frequency and sequencing of existing drug treatments.

OBJECTIVE

To use recent claims data to characterize 1st, 2nd, and 3rd line drug treatments for acromegaly, including duration of treatment and patterns of switching.

METHODS

Study Design and Data Source

Retrospective cohort study using Truven Health Analytics MarketScan® and IMS Health PharMetrics.

Study Timeframe and Population

<u>Timeframe</u>: 1/1/2002 to 12/31/2010

Pharmacologically Treated Patients:

- ≥2 medical claims with acromegaly (ICD-9-CM code 253.0) in the study timeframe; AND
- ≥1 claim of pharmacologic treatment in the study timeframe; identified using NDC and HCPCS codes

<u>Newly Treated Patients:</u>

- No claim of pharmacologic treatment in the 6 months prior to the first observed treatment date in the study timeframe; AND
- Continuously enrolled for at least 6 months prior to the first observed treatment date

Key Definitions

- Course of pharmacologic treatment: period from first to last treatment claim
- Combination treatment: ≥ 2 medications with overlap of ≥90 days

RESULTS

- 1,758 patients in st female
- Between 19 and 14 with a pharmacolog
 - Somatostati common cla
 - Octreotide L
 - No combinat
- Pegvisomant and (of use among 1st li
- Patients on 1st line combination therap
- Among 503 2nd lin and drug combinat (**Fig. 3**)
 - SSA used in
 - Most commo LAR + cabe
- Among 209 3rd line and DA (18%) were used most frequently (Fig. 3)
 - SSA used in 85.3% of combination therapies
 - Most common 3rd line combination was again octreotide LAR + cabergoline (25.3%)

LIMITATIONS

- The study included primarily commercially insured patients, excluding others such as patients in clinical trials, veterans, and the uninsured.
- Claims databases lacked biochemical parameters.
- No single patient group was followed consistently through all treatment lines.
- The study had small sample sizes for most individual treatment patterns.

PATTERNS OF PHARMACOLOGIC TREATMENT IN US PATIENTS WITH ACROMEGALY

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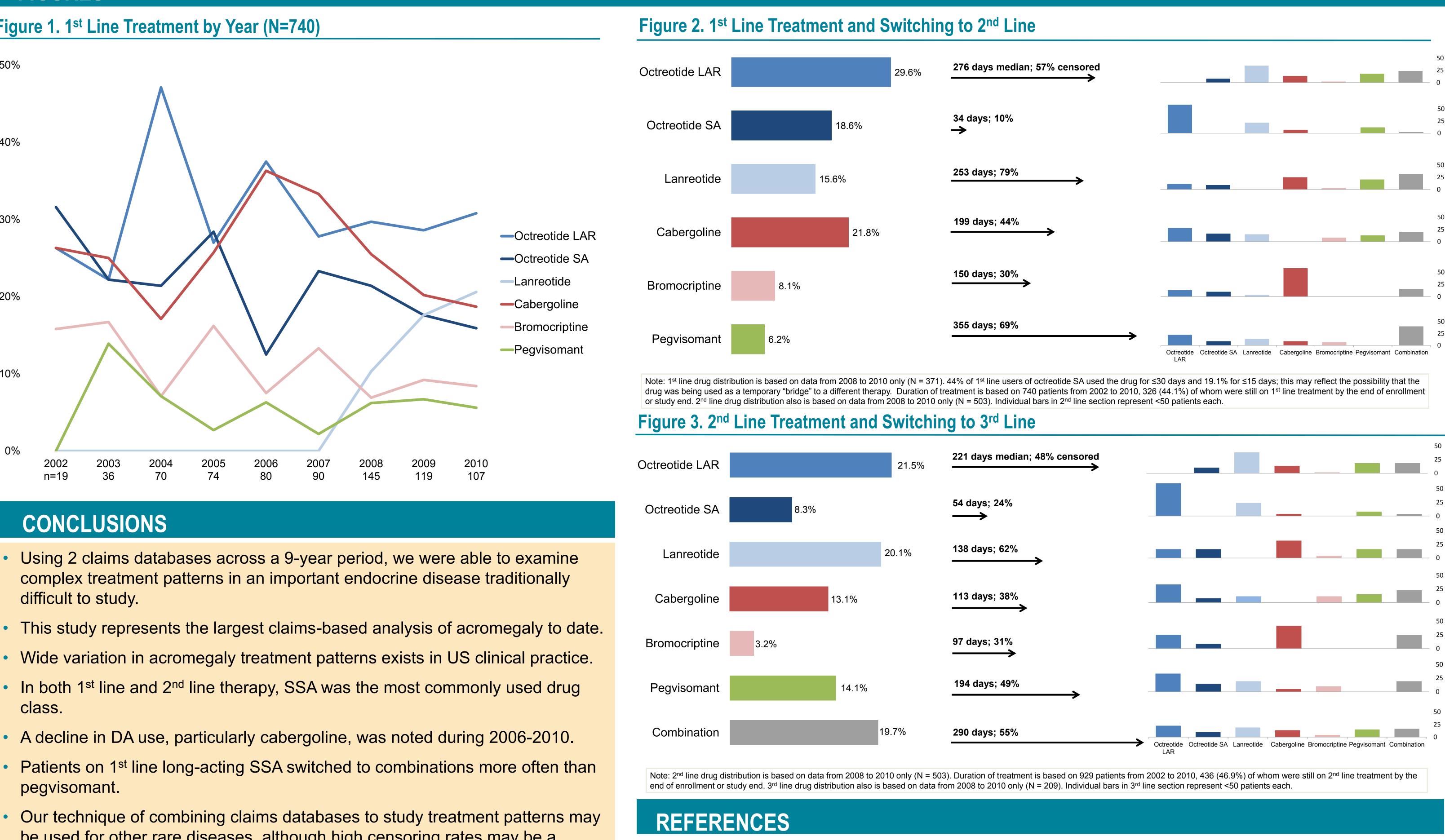
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	FIGURES
study cohort; mean age 46.7 years; 50%	Figure 1. 1 st Line Treatment by Year
145 patients per year were newly treated ogic agent (total of 740 patients)	50%
tin analogues (SSA) were the most ass of 1 st line therapies (59%) (Fig. 1)	40%
LAR was most common drug (31.2%)	
ations used in 1 st line therapy	30%
d octreotide LAR had the longest duration line therapies (Fig. 2)	30%
e long-acting SSA switched to apy more often than pegvisomant	20%
ne patients during 2008-2010, SSA (50%) ations (20%) were used most frequently	10%
in 88.9% of combination therapies	
non 2 nd line combination was octreotide ergoline (29.3%)	0% 2002 2003 2004 2005 2
e patients during 2008-2010, SSA (51%) re used most frequently (Fig. 3)	n=19 36 70 74

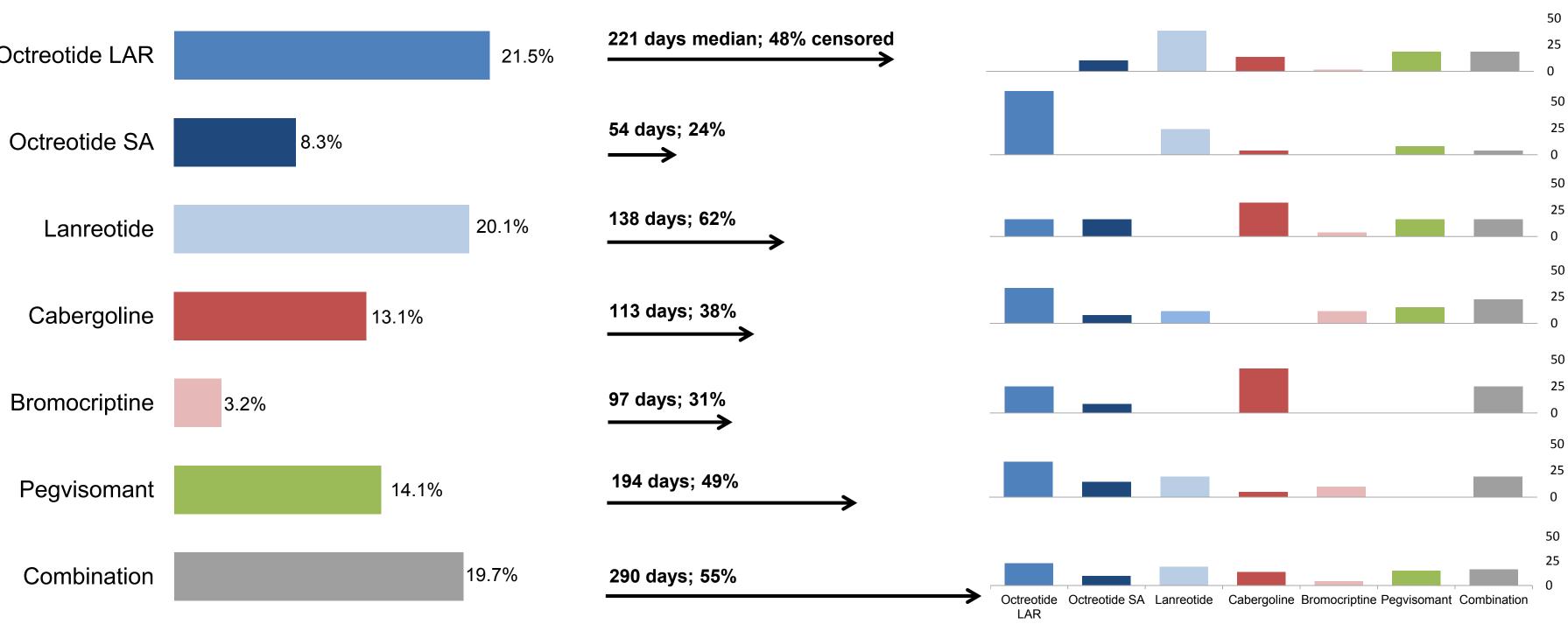
CONCLUSIONS

- difficult to study.

- class.
- pegvisomant.
- validate the utility of this technique.



be used for other rare diseases, although high censoring rates may be a challenge. Other methodologies such as chart reviews may confirm and





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North. Central and South Americas: aribbean: China UK, Europe & Russia

1. Melmed S. Medical progress: acromegaly. N Engl J Med. 2006;355(24):2558-2573

2. Chanson P, Salenave S, Kamenicky P, et al. Pituitary tumours: acromegaly. Best Pract Res Clin Endocrinol Metab. 2009;23(5):555-574. 3. Chanson P, Salenave S. Acromegaly. Orphanet J Rare Dis. 2008; Jun 25; 3:17.