

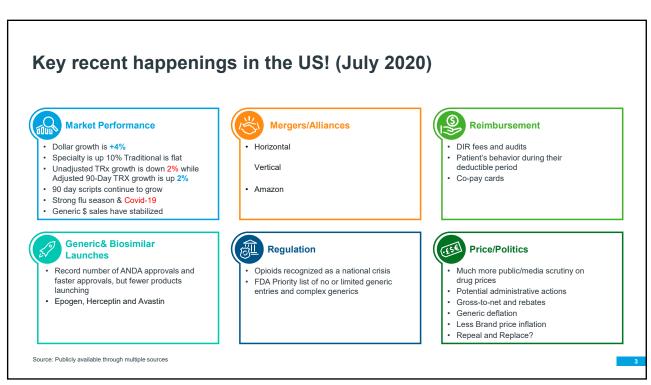
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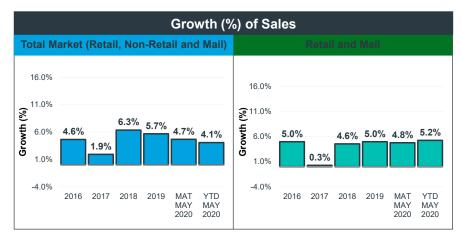




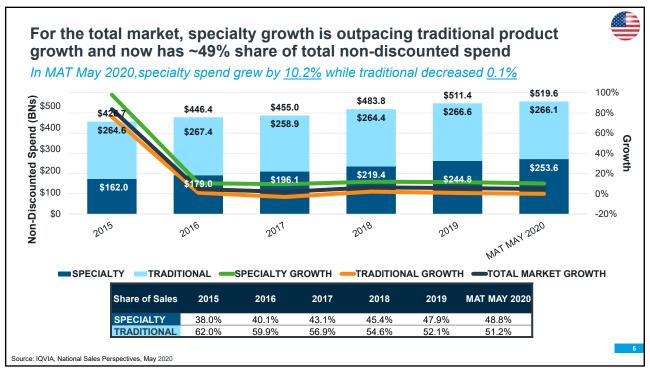




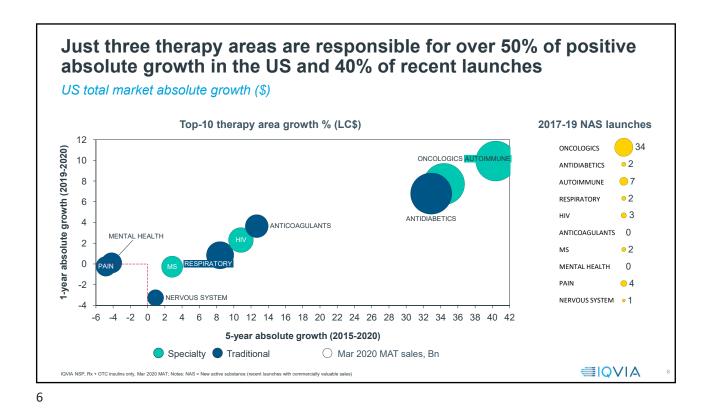




Source: IQVIA, National Sales Perspectives, May 2020 Note: Limited to Rx and OTC Insulins; Includes Retail, Non-Retail and Mail



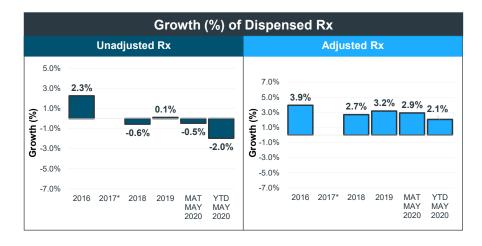




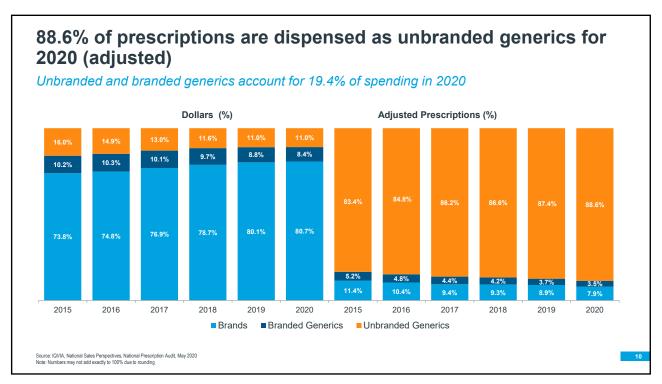
However, growth is now slowing in all three major therapy areas; specifically, oncology growth has slowed by 5% since prior year US total market growth rate (%) Top-10 therapy area growth % (LC\$) 25 Short-term growth (% YoY,2019-2020) Recent growth rate is higher than historical rate (accelerating growth) ANTICOAGULANTS 20 AUTOIMMUNE 15 ONCOLOGICS 10 ANTIDIABETICS MENTAL HEALTH 5 RESPIRATORY 0 Historic growth rate is low than recent NERVOUS SYSTEM growth rate (decelerating growth) -25 16 26 14 Historic growth (% 5-year CAGR, 2015-2020) Specialty 🔵 Traditional Mat 2020 MAT sales, Bn **IQVIA** 



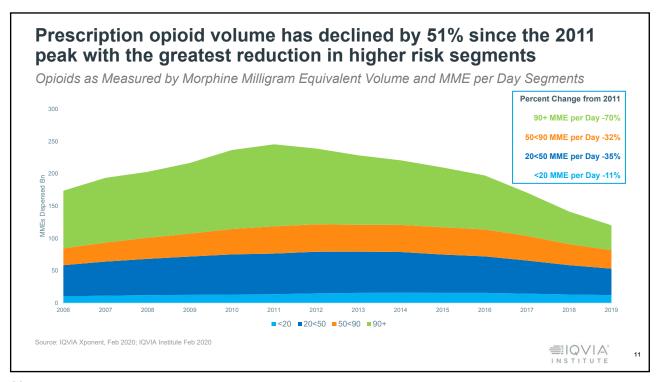




Source: IQVIA, National Prescription Audit & RxInsight, May 2020; Retail, Mail, and LTC limited to Rx and OTC Insulins \*Note: Declines between 2016 and 2017 are due to VRAF enhancement from 2017 onwards

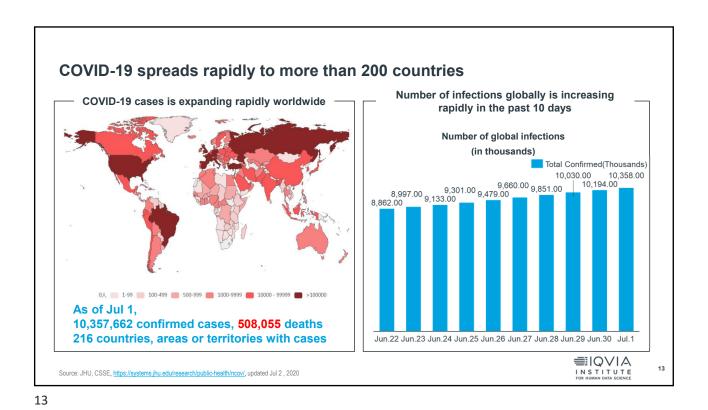






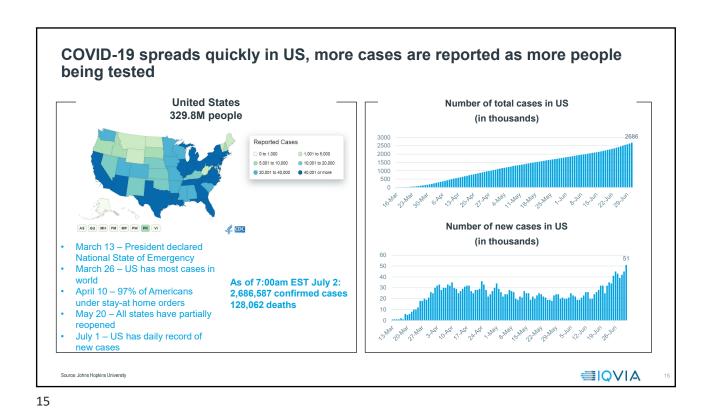






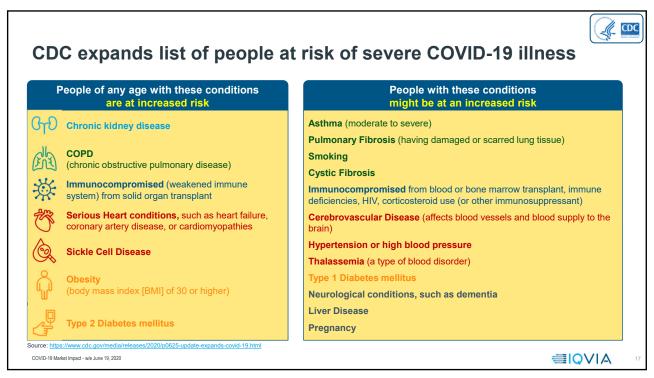
SARS CoV-2 mutations are relatively infrequent although G615 mutation has quickly become dominant globally Adaptive pressures could impact future transmission as well as efficacy of vaccines based upon earlier viral characteristics Global ■ D614 1500 SARS CoV-2 in Wuhan (D614 in orange) 1000 Feb 23 Mar 22 Date (2020) SARS-CoV-2 spike protein Impact of viral mutations: SNP mutations (green) · Increased likelihood of mutations as infections increase D614G mutation (red) · Efficacy of vaccines based upon earlier versions of virus · Accuracy of diagnostic tests · Transmission capacity · Severity of infection · Potential need for booster vaccines doi.org/10.1101/2020.04.29.069054doi doi.org/10.1101/2020.04.28.066977doi IQVIA Global Executive Briefing: COVID-19 June 2020; Copyright 2020 IQVIA **SIQVIA** 

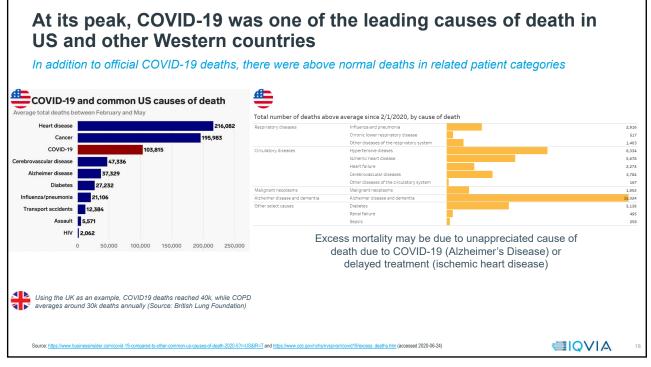




Simulation band of active cases in next 150 days in US --- Projected Active Cases per 100K Population Actual Active Cases per 100K Population confirmed cases Projected total confirmed cases Estimated per 100k population Peak time Optimistic 100K 7/18/2020 4.2M 1286.6 Scenario per : 200 Normal 1537.4 7/28/2020 5.1M Pessimistic 100 6.0M 1814.5 8/3/2020 2020-03 2020-04 2020-05 2020-06 2020-07 2020-08 Date 2020-09 2020-10 2020-11 2020-12 Note: Shaded area is the range of values that is likely to include the correct projected estimate for a given data category. Wider band can result from limited data availability, small studies, and conflicting data, while smaller band can result from extensive data availability, large studies, and data that are accurate and transparent. The model presented has 3 scenarios and is **≣**IQVIA INSTITUTE represented by the shaded area(s) on each chart. The simulation will be further updated due to dynamic Non-Pharmaceutical Intervention in the U.S. Updated on Jul 2 2020









## An increasing number of states are facing surged pressure on healthcare capacity as infections rise post states opening

#### **Decline in Cases** · All states, except MD, MA, DC, NJ, NY, RI, and SD, showed an increase in case growth · Daily case growth and 5-day trend\* suggest that none of these

6 states plus DC shows sign of rebound\*\*, but caution is warranted in 3 CO has shown the most signs of rebound\*\* in the past 14 days

\*5-day trend is based on data from 06/25 to 06/29 per data cutoff date of the report.

\*\*Sign of rebound after a state has passed the case growth threshold are an increase in 5-day growth trend and at least one day of new cases/100K greater than 10

#### **Diagnostic Testing Capacity**

- 7 states and DC have demonstrated a 14-day\* decline in the trend in % positive
- · No state has yet met the CDC metric of 14 consecutive days included in draft technical
- The % positive test remains above 10% in AZ, NV, FL, SC, TX, GA, AL, ID and AR over the prior week

\*14-day trend is based on data from 06/16 to 06/29 per data cutoff date of the report



#### **Public Health System Capacity**

- The total number of contact tracers has expanded to 44k from roughly 11k at the start of the pandemic
- At present, only 7 states have sufficient tracers to meet the National Association of County and City Health Officials standard of 30 tracers per 100K during periods of pandemic

Source: Nephron COVID-19 Daily Tracker, data ending June 29, 2020 'Global Cases Not Abating' Click this link to su

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## Week-over-week, visits are up while elective procedures, prescriptions and labs are down, as the economy shows signs of easing

% Change in total

prescriptions vs.

prior week (W/E

Weekly

in labs

increase

6/26/2020)

Data Week Ending June 19, 2020 Published July 3, 2020

16.0% Institutional 16.1% Office 2.4% Telehealth Weekly visit growth

> Weekly increase in elective procedures

**-6.8**%

**-2.0**% retail

**-1.2**% mail

Increase in NBRx vs. prior week, and continues are down -0.6% (W/E 6/19/2020)

Continuing unemployment (w/e 6/20) claims which was flat vs. prior week

Oncology Weekly Changes

Oncology **NBRx** rolling 4-wk growth

Oncology patient interactions +3.1%

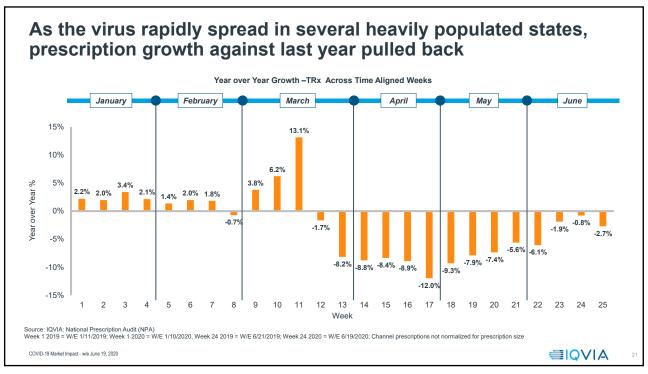
Still exceeding baseline with new diagnoses at 96% of baseline

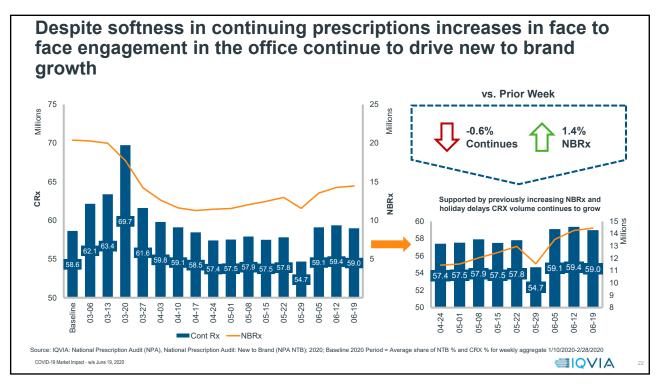
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Click this link to subscribe to the Neph nron Research COVID-19 Daily Tracker

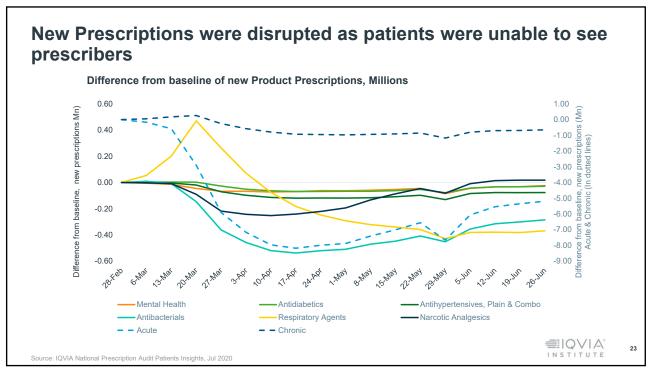
COVID-19 Market Impact - w/e June 19, 2020

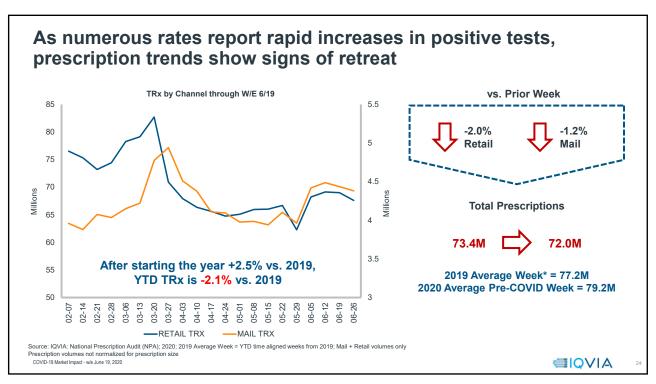




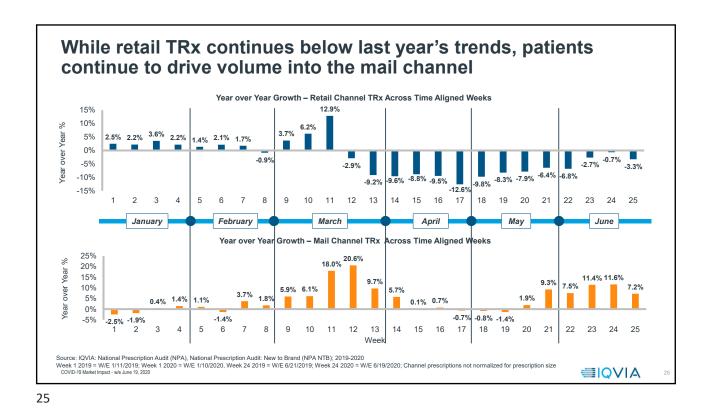




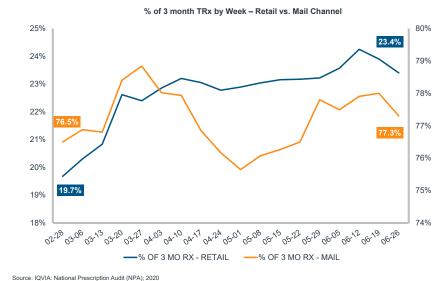












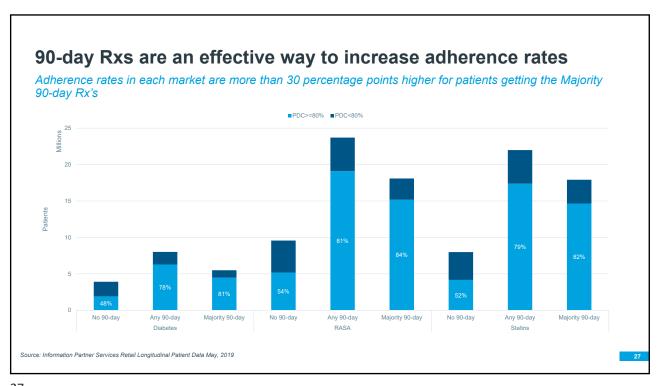
- As patients considered stay-athome orders the % of extended retail fills steady grew through COVID
- There was a dip in the rate of extended mail fills likely due to a heavier proportion of first-time/ bridge RX fills as patients stayed-at-home
- These changes will impact adherence and compliance considerations as patients make fewer trips back to the pharmacy to fill an RX

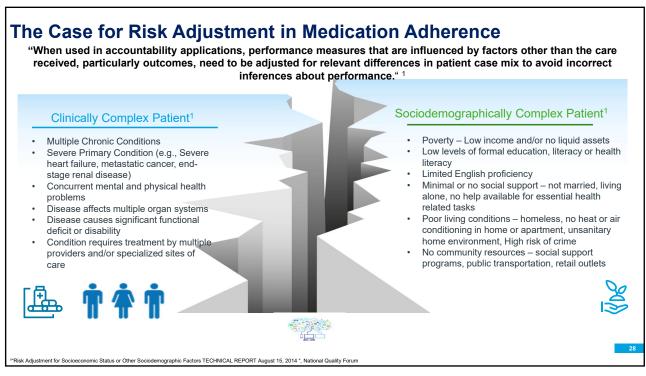
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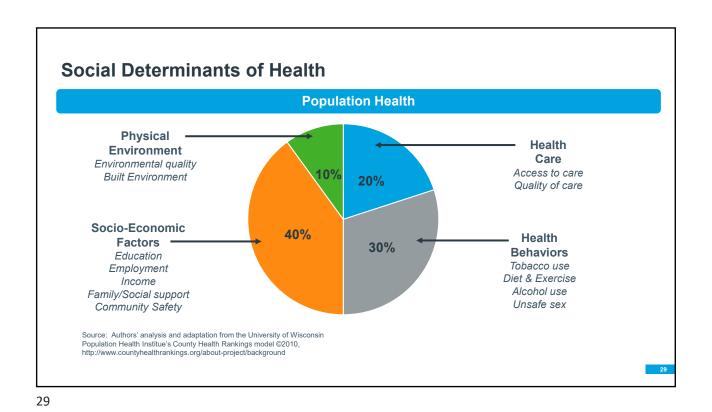
COVID-19 Market Impact - w/e June 19, 2020

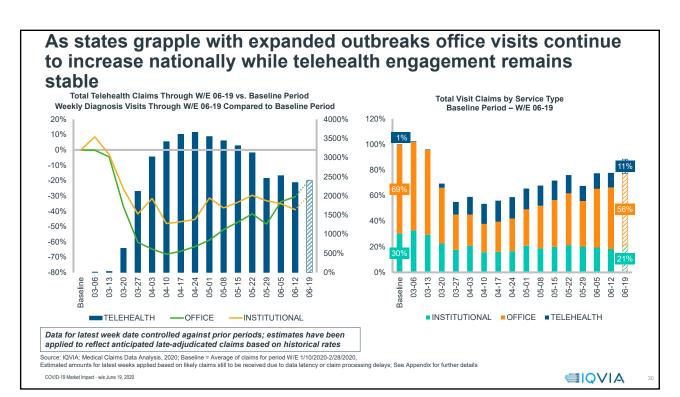




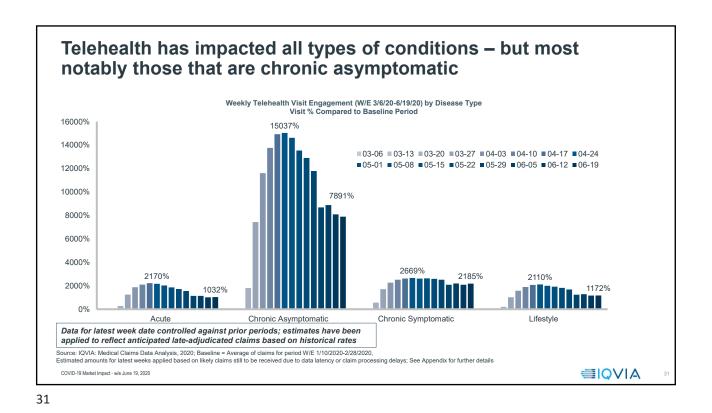


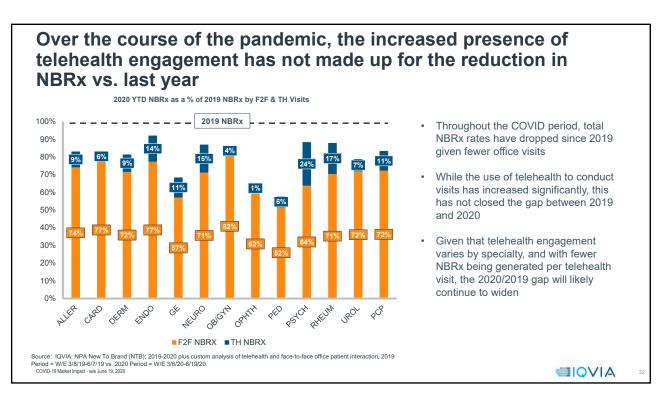














# Overall telehealth NBRx productivity remains lower than office visits given several engagement drivers

4 W/E 6/19/20

Telehealth

0.97

0.79

0.80

0.36

0.70

0.77

0.87

0.36

0.27

0.38

0.65

0.33

**NBRx Per Patient Visit** 

**Specialty** 

**Allergists** 

**Pediatrics** 

Ob/Gyn

**Dermatologists** 

Rheumatologists

Gastroenterologists

Ophthalmologists

Neurologists

Cardiologists

**Endocrinologists** 

**Psychiatry** 

Urology

4 W/E 6/21/19

Office

1.16

1.16

0.52

1.04

1.14

1.31

0.55

0.44

0.64

1.16

0.60



Difference (%)

Office v. TM

-17%

-22%

-31%

-32%

**-32**%

-33%

-33%

-35%

-39%

-41%

-44%

-46%

#### **Potential Drivers of Difference**



- · Patient mix skews towards existing patients replacing office visits with telehealth
- · Willingness to initiate new therapy remotely
- Lack of diagnostics such as vitals and labs are impeding diagnosis of new conditions
- · Prescribers are reporting spending less time on a telehealth call with patients which may reduce NBRx opportunity

Note: Prior publication of this slide erroneously used projected new to brand metrics – the current slide has been revised to use eligible RAW NBRx for greater accuracy; Source: NPA New To Brand (NPA NTB); Medical Claims analysis; 2020; Custom analysis Evaluation of medical claims visit with same patient/prescriber combination occurring as NBRx within 2 weeks of medical claim service date COVID-19 Market Impact - wie June 19, 2020

4 W/E 6/19/20

Office

1.16

1.01

1.16

0.52

1.04

0.99

1.15

1.31

0.55

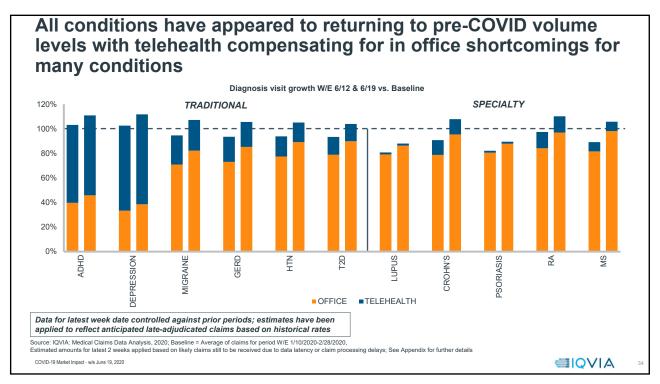
0.44

0.65

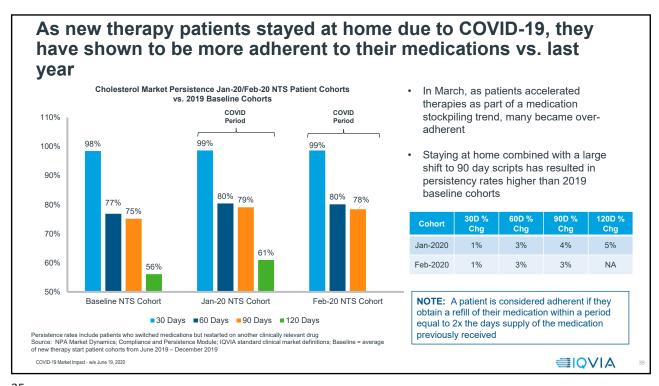
1.16

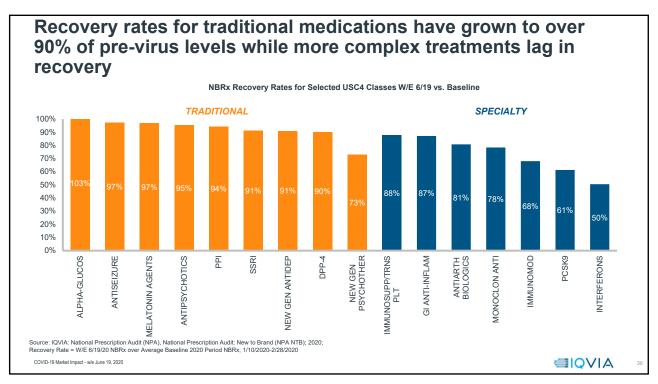
0.61



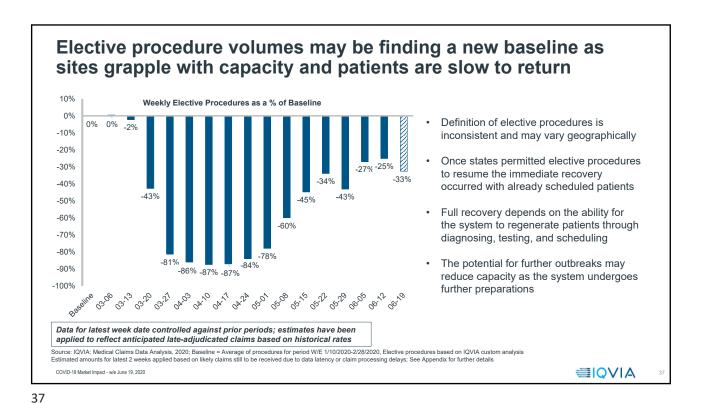






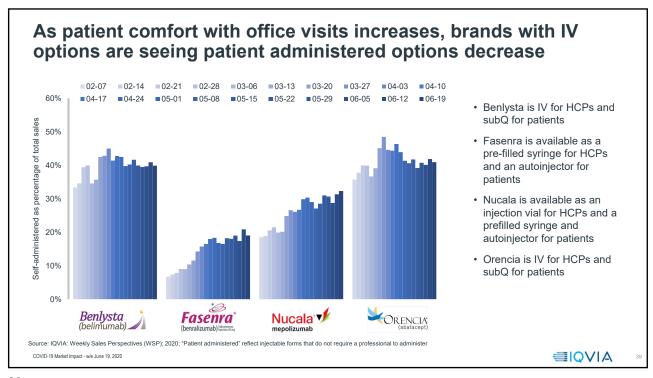


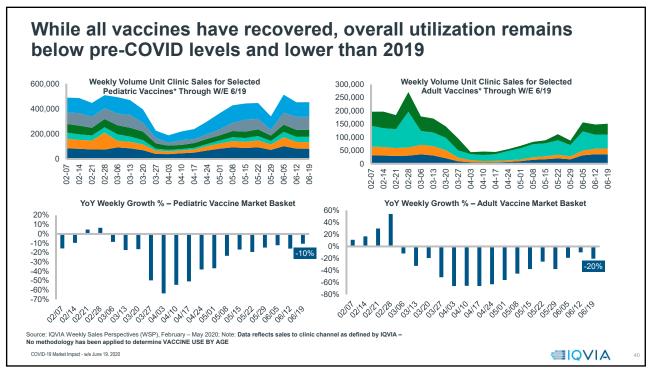




Office based lab orders continue to grow as patients reengage with providers but hospital sites lag as elective procedures slow Lab Test Recovery Rates by Order Site W/E 6/19 vs. Baseline Period Lab Test Weekly Growth Rates by Place of Service National Recovery Rate = 66.0% (6/19 vs 6/12) Weekly Growth = -6.9% ■ 05-08 ■ 05-15 ■ 05-22 ■ 05-29 ■ 06-05 ■ 06-12 ■ 06-19 ALL SITES 100% IND LAB 80% INPATIENT 60% OFFICE 40% 20% OUTPATIENT OUTPATIENT MOLAR INPATENT URGENT CARE -40% -20% 0% 20% 40% Data for latest week date controlled against prior periods; estimates have been applied to reflect anticipated late-adjudicated claims based on historical rates Source: IQVIA: Medical Claims Data Analysis, 2020; Baseline = Average of lab orders for period W/E 1/10/2020-2/28/2020.
Estimated amounts for latest 2 weeks applied based on likely claims still to be received due to data latency or claim process essing delays; See Appendix for further details COVID-19 Market Impact - w/e June 19, 2020 **AIVOI** 

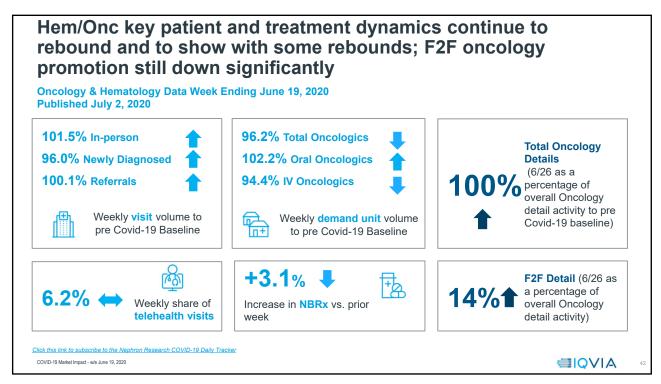




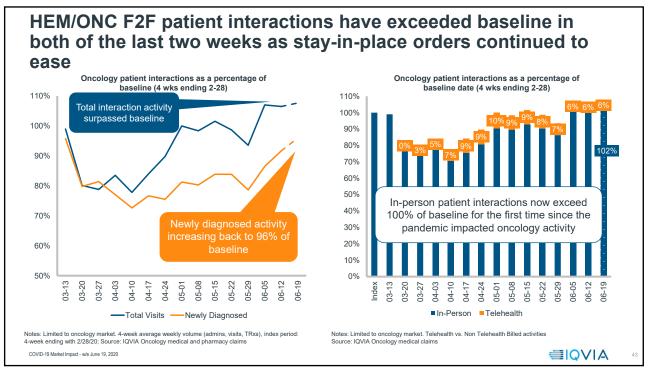


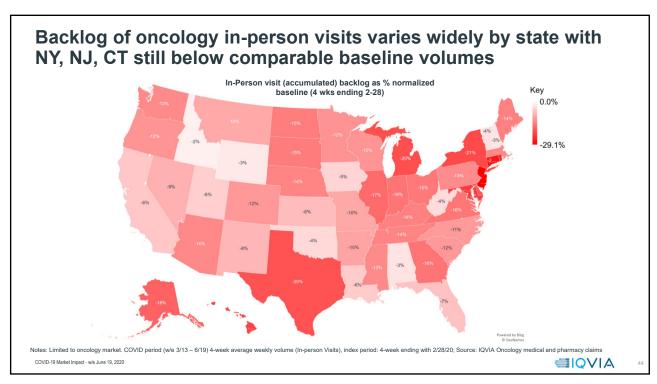




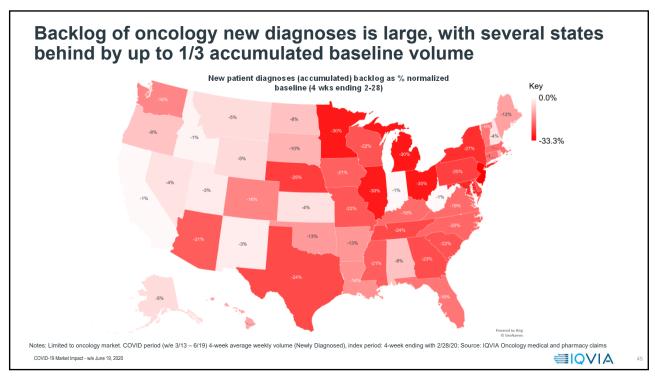


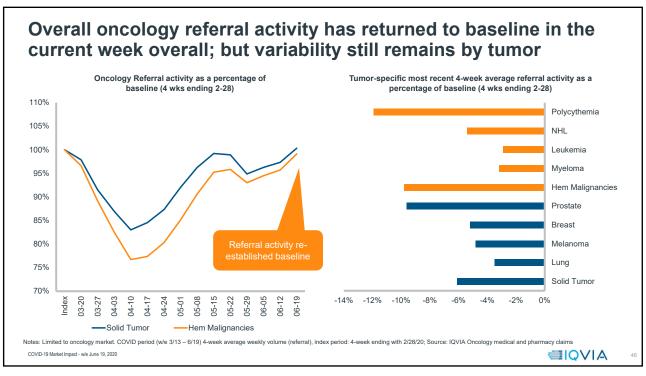




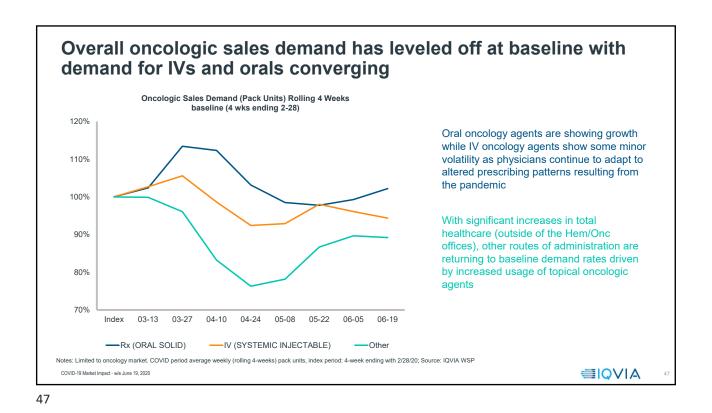


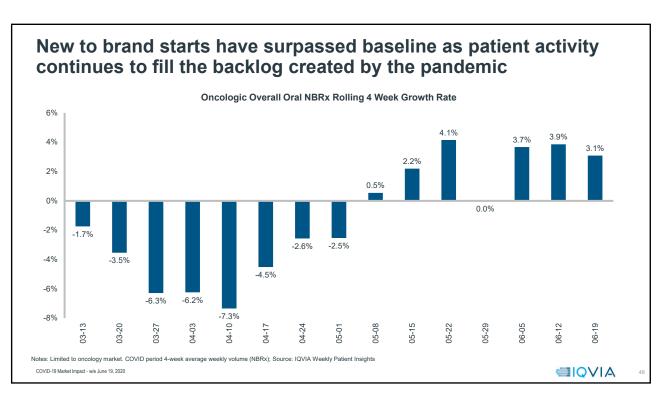






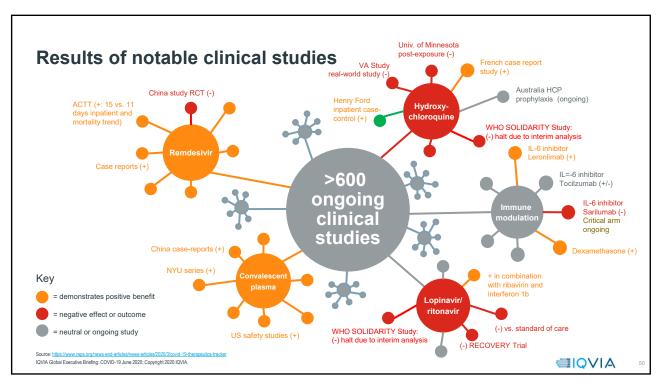




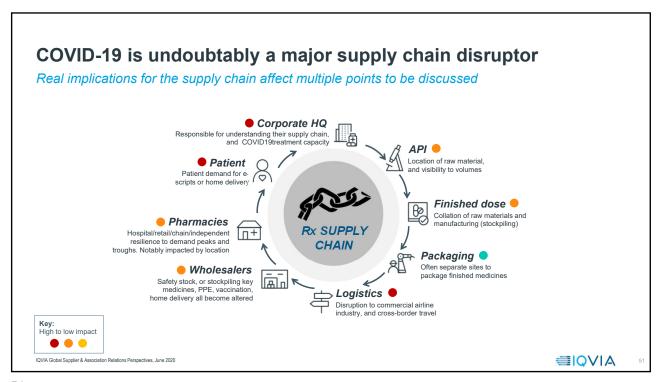


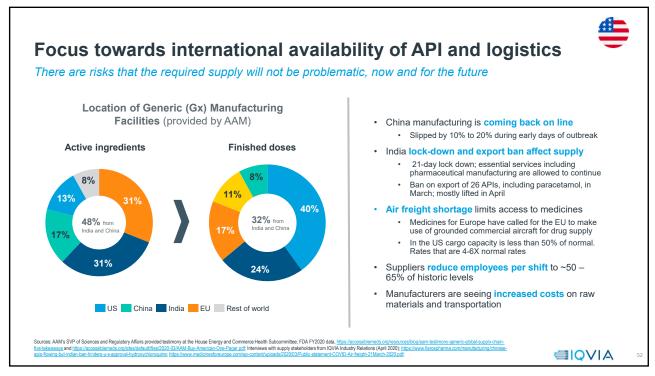














## Supply chain is now a recognised pillar of medical innovation

Wholesalers and pharmacies are national / regional strategic assets to the system

#### Pre-COVID19 model

- Limited visibility to the flow of goods within the system
- Limited public awareness, and low perception



#### Post-COVID19 model

- Strategic asset to companies and governments
- Increasing transparency + centralised data collection
- Top-tier government priority

- · Most Governments have implemented key measures
  - · Approving electronic prescriptions
  - · Essential status to wholesaler operations
  - · Economic Incentives
- · National Critical drugs list
- · Stockpiling Strategy for future pandemic
- · Measures to improve transparency
- · Policy pressure to in-source/diversify manufacturing
- · Higher security in delivery results in higher cost
- · Unclear whether these initiatives will maintain momentum or fade as crisis fades

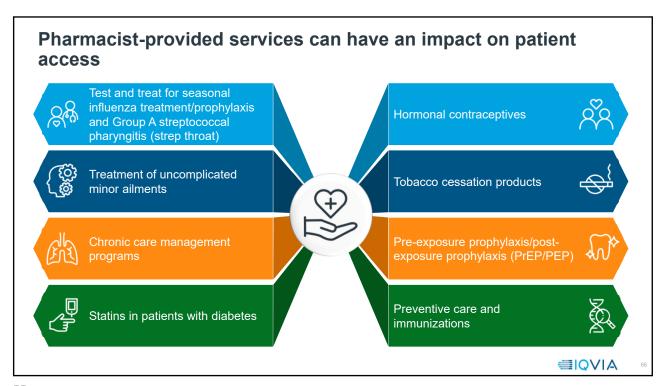
Global Supplier & Association Relations perspectives – May 2020



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# Regardless of how the pandemic ends, supply is key Perspectives on future scenarios 'Social' end 'Medical' end Societies adapt to different environment in-Virus impact minimized by development lieu of, or while awaiting medical treatment of medical interventions, or mutates Vaccine(s) Treatment(s) **Self-limitation Minimisation** Accelerated Scale of manufacturing and potentially inpatient therapies Selling PPE, home treatments and advice Home delivery detection, quarantine and treatment **SIQVIA**

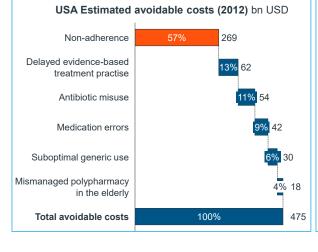








# Compliance is undoubtedly the biggest source of inefficiency and opportunity



- Adherence decreases with the frequency of the regimen:
  - Daily dosing
     1x
     2x
     3x
     4x

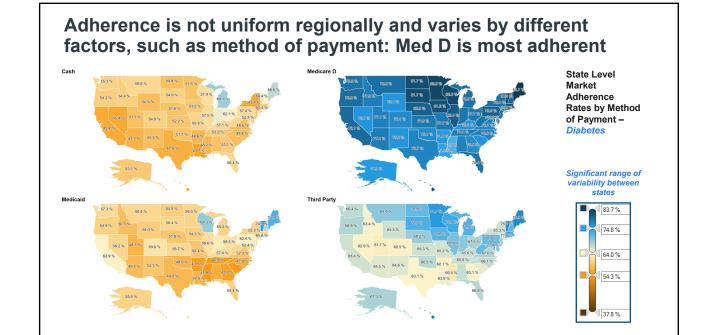
     Adherence rate
     72%
     69%
     65%
     51%
- Packaging is important: A study on using calendar packaging in 7 trials showed 6 showed positive results
- · Therapy areas matter:
  - Adherence is greatest in patients with HIV, arthritis, gastro or cancer.
  - Lowest in pulmonary, diabetes or sleep disorders.

Source: IQVIA European Thought Leadership; IQVIA Institute 2012 "Responsible use of Medicine; https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3711878/; http://annals.org/aim/fullarticle/1357338

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Source: IQVIA, State Level Market Adherence Rates by Method of Payment, MAT December 2018



#### Thank you

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### Doug Long, Vice President, Industry Relations

Doug Long is Vice President of Industry Relations at IQVIA (formerly QuintilesIMS), the world's largest pharmaceutical information company. IQVIA offers services to the pharmaceutical industry in over 100 countries around the globe. Doug has been with IQVIA since 1989.

His fundamental task is to help secure data for all existing and new databases supported by IQVIA, manage supplier, manufacturer & association relationships, and develop information for data partners. As direct consequence of his involvement in these areas, Doug has considerable experience with, and a unique perspective on, the changing U.S. and global healthcare marketplace and pharmaceutical distribution.

Doug is a frequent industry speaker and the recipient of many awards from trade groups. Before joining IQVIA Doug held positions at Nielsen Market Research for 16 years in various sales and marketing capacities. A native of Illinois, Doug received a BA from DePauw University and holds an MBA in management from Fairleigh Dickinson University.





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