

Investor Presentation

Sept 2021

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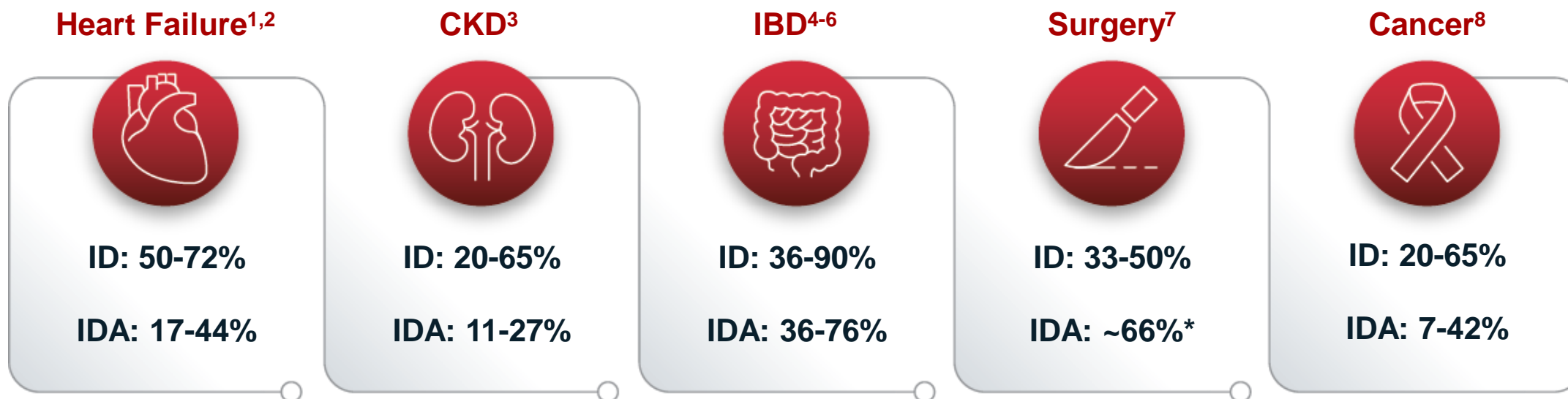
Overview of Shield Therapeutics:

Pharmaceutical Company Focused on the Treatment of Iron Deficiency

- **London AIM-listed company (STX.L; OTCQX:SHIEF)**
 - Market capitalization ~GBP 110m / USD 150m
- **Primary focus is on developing and commercializing Accrufer®/Feraccru®**
 - A novel oral treatment approved in US and EU for treating iron deficiency (ID) in adults
 - US commercialization commenced Q3 2021 following equity raise of GBP 28m / USD 39m (net of fees) March 2021
 - Ex-US Commercialization out-licensed to:
 - Norgine (Q4 2018) – Europe, Australia and New Zealand
 - ASK Pharma (Q1 2020) – China, Taiwan, Hong Kong and Macau
 - Korea Pharma (Q3 2021) – Republic of Korea
 - Patent protection until 2035

Market and Opportunity

ID and IDA Prevalence are High in Patients with Many Inflammatory Conditions or Women's Health



- ~20% of women of childbearing age and up to 37% of pregnant women may have IDA^{9,10}
- However, prevalence estimates can differ due to the disease stage and severity of the patient population being studied⁷




*IDA secondary to major surgery.




ID, iron deficiency; IDA, iron deficiency anemia; CKD, chronic kidney disease; IBD, inflammatory bowel disease.

1. Klip IT, et al. *Am Heart J*. 2013;165(4):575-582.e573. 2. Cohen-Solal A, et al. *Eur J Heart Fail*. 2014;16(9):984-991. 3. Fishbane S, et al. *Clin J Amer Soc Neph*. 2009;4(1):57. 4. Bager P, et al. *Scand J Gastro*. 2010;46:304-309. 5. Kulnigg S, et al. *Aliment Pharm & Ther*. 2006;24(11-12):1507-1523. 6. Stein J, et al. *Nat Rev Gastroenterol Hepatol*. 2010;7(11):599-610. 7. Cappellini MD, et al. *J Intern Med*. 2020;287(2):153-170. 8. Naoum FA. *Rev Bras Hematol Hemoter*. 2016;38(4):325-330. 9. Your Guide to Anemia. National Heart, Lung, and Blood Institute website. <https://www.nhlbi.nih.gov/files/docs/public/blood/anemia-yg.pdf>. September, 2011. 10. Friedman AJ, et al. *J Womens Health (Larchmt)*. 2012;21(12):1282-1289.

Treatment of IDA

- The underlying cause of IDA should be investigated, or the patient referred to a specialist^{1,2}
- Prompt treatment of IDA is warranted, as correction improves QoL, physical conditioning, fatigue, and cognitive deficits³
- An important question in IDA management is whether or when oral or IV iron should be used^{1,3}

	
 Usually, 1 st line Convenient Readily available	Less efficient absorption Poor tolerability Slower iron repletion Exacerbation of IBD Poor compliance often due to AEs Risk of iron overload due to overdose

	
 Usually, 2 nd line after oral iron failure Fast iron repletion Better bioavailability and absorption No compliance issues	Inconvenient Infusion required Risk of anaphylaxis Risk of iron overload due to overdose

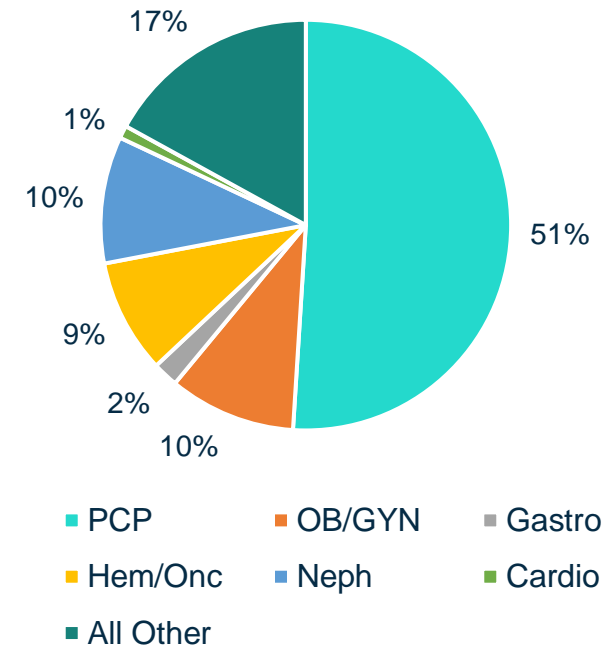
IDA, iron deficiency anemia; QoL, quality of life; GI gastrointestinal; IBD, inflammatory bowel disease; AEs, adverse events.

1. Cappellini MD, et al. *J Intern Med*. 2020;287(2):153-170. 2. Short MW, et al. *Am Fam Physician*. 2013;87(2):98-104. 3. Jimenez K, et al. *Gastroenterol Hepatol (N Y)*. 2015;11(4):241-250.

US Iron Replacement Market is Large with Oral Therapies making up 90% of the Volume and PCPs Writing 50% of the Rx

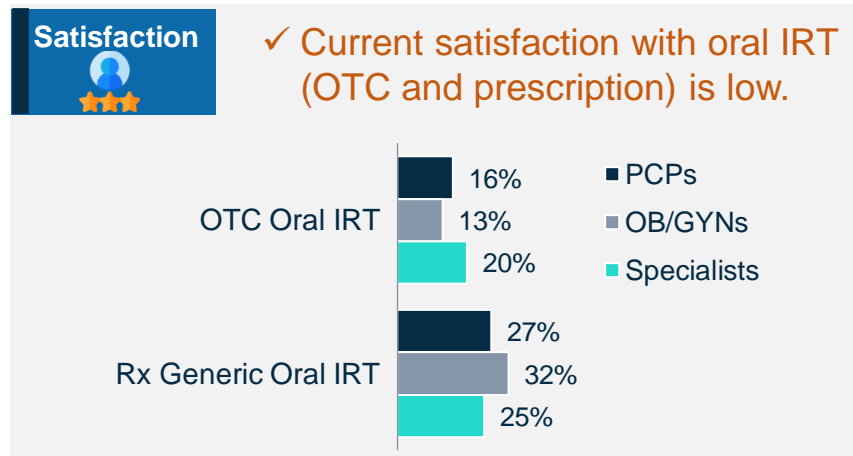
- ~10 million Rx's per year for oral iron
 - OTC and Generics
- ~550K clinicians writing for oral and/or IV iron yearly
 - PCP's and OB/GYN make up over >60% of the volume
- 65,000 physicians drive >60% of oral iron volume
 - PCP's, OB/GYN majority of volume

Total Market TRx Volume by Specialty



Note: All specialty groups include any associated NPPAs i.e. OBGYN specialty group includes board certified OBGYNs and any mid-levels that practice with them.
PCPs here include Family Practice, General Practice, and Internal Medicine specialties, and their associated NPPAs
Source: Medical Claims and Xponent data, 12 month time period ending Dec 2019

Clinicians are Seeking a Well-Tolerated and Effective Oral Iron



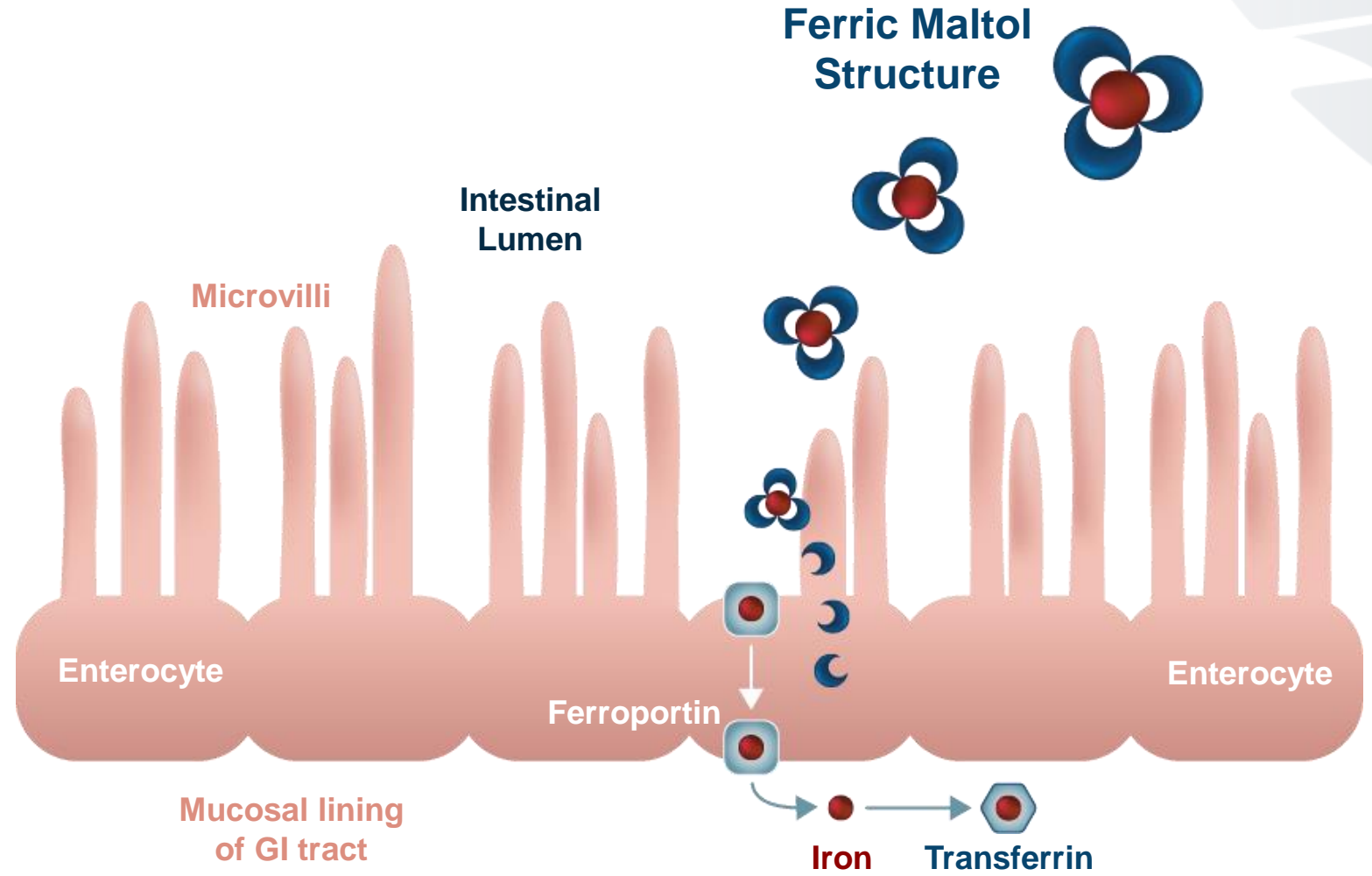
Importance

Most Important Attributes in IRT Selection

	% rating 6,7 (Top 2 Box)	PCPs	OB/GYNs	Specialists
Well-tolerated		86%	94%	75%
Effective therapy		82%	94%	85%
Acceptable OOP cost to patients		82%	77%	60%
Good safety profile		80%	84%	70%
Convenient dosing and administration		76%	77%	80%

Accrufer® - A Unique Formulation of Oral Iron

- The Fe^{3+} in Accrufer remains in complex with maltol until absorbed and iron is delivered into the bloodstream, where it binds to transferrin¹
- Other oral irons are salts and require iron dissociation for absorption, leading to formation of reactive oxygen species (ROS).
 - This causes intolerance in many patients and is the main reason for discontinuation.



1. ACCRUFER (ferric maltol) [Prescribing Information]. Austin, TX: Shield Therapeutics, 2019. 2. Gasche C, et al. *Inflamm Bowel Dis*. 2015;21(3):579-588.

Accrufer® Increased and Maintained Hb Concentrations Over 64 Weeks

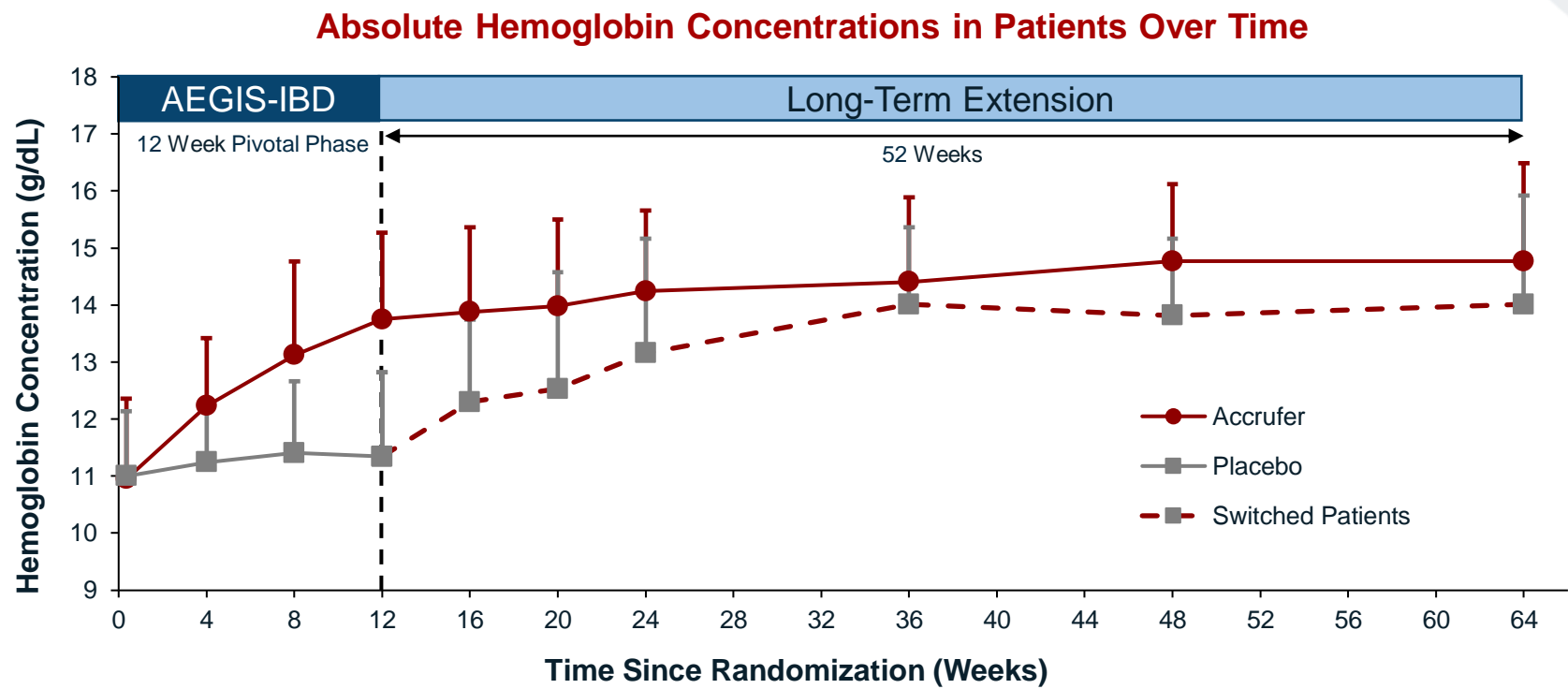
- The long-term efficacy of Accrufer® was investigated in a 52-week study extension phase

Accrufer®

Mean Hb concentrations (g/dL) increased from 11.0 at baseline to 13.95 at week 64

Mean Hb concentrations (g/dL) increased from 11.10 at baseline to 13.33 at week 64

Switched Patients



Accrufer (n)	64	59	59	58		43		41		40		35
Placebo/Switched (n)	64	61	56	53		41		36		37		36

Hb, hemoglobin.
 1. Schmidt C, et al. *Aliment Pharmacol Ther.* 2016;44(3):259-270.

Accrufer® Was Shown To Be Safe and Well-Tolerated Across Phase 3 Studies

AEs by Preferred Term²

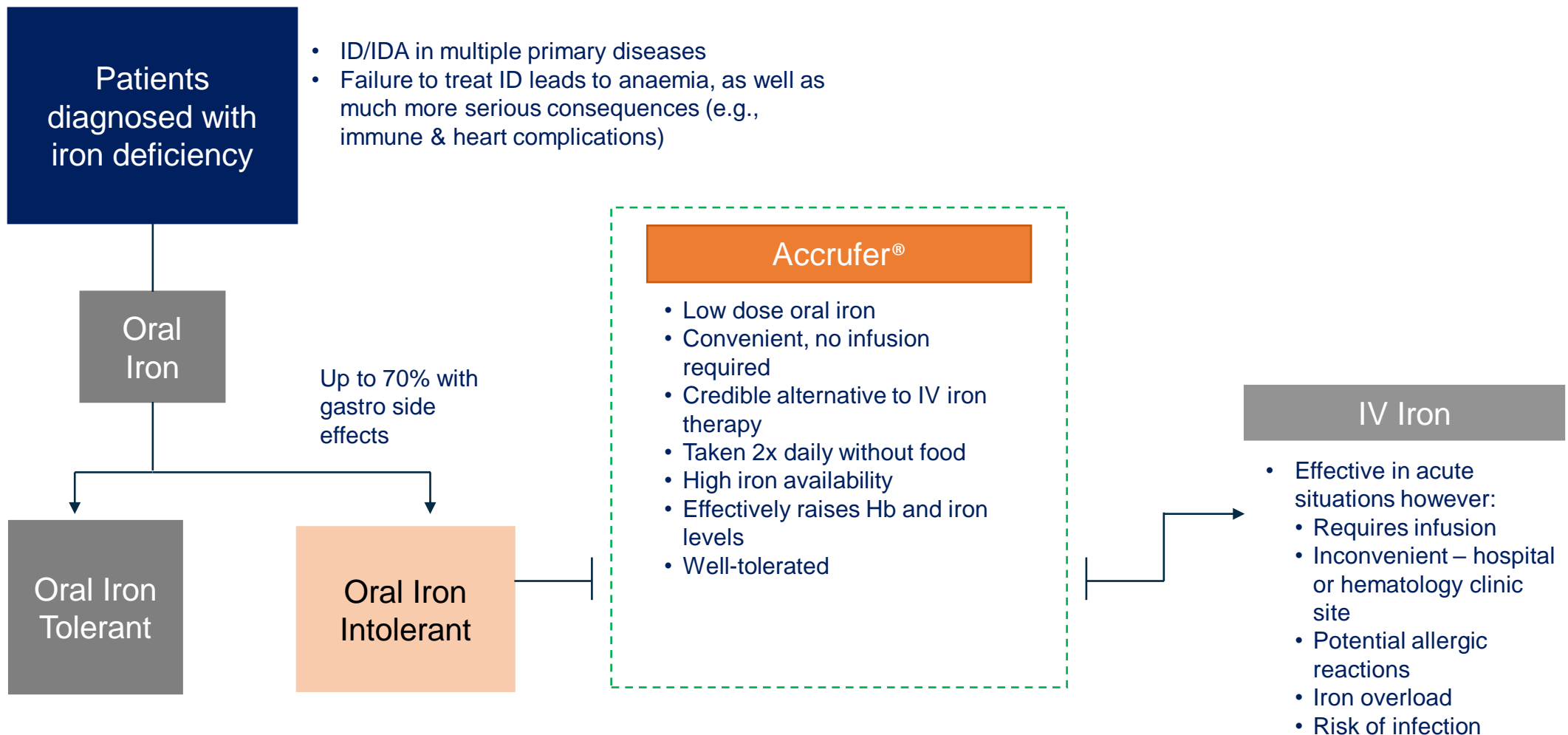
- A high proportion of patients taking Accrufer® completed 12 and 16 weeks of treatment in both the IBD and CKD populations^{1,2}
- Neither short- or long-term Accrufer® treatment led to iron overload²
- The percentage of patients who discontinued treatment due to AEs was 4.6% for Accrufer®²

	Accrufer 30 mg BID (n = 175)	Placebo BID (n = 120)
Body System Adverse Reaction: GI		
Flatulence	4.6%	0%
Diarrhea	4%	1.7%
Constipation	4%	0.8%
Feces discolored	4%	0.8%
Abdominal pain	2.9%	2.5%
Nausea	1.7%	0.8%
Vomiting	1.7%	0%
Abdominal discomfort	1.1%	0%
Abdominal distension	1.1%	0%

IBD, inflammatory bowel disease; CKD, chronic kidney disease; AEs, adverse events; GI, gastrointestinal.

1. Gasche C, et al. *Inflamm Bowel Dis*. 2015;21(3):579-588. 2. Accrufer (ferric maltol) [Prescribing Information]. Austin, TX: Shield Therapeutics, 2019.

Accrufer® Can Occupy Area of Need between OTC and IV Iron

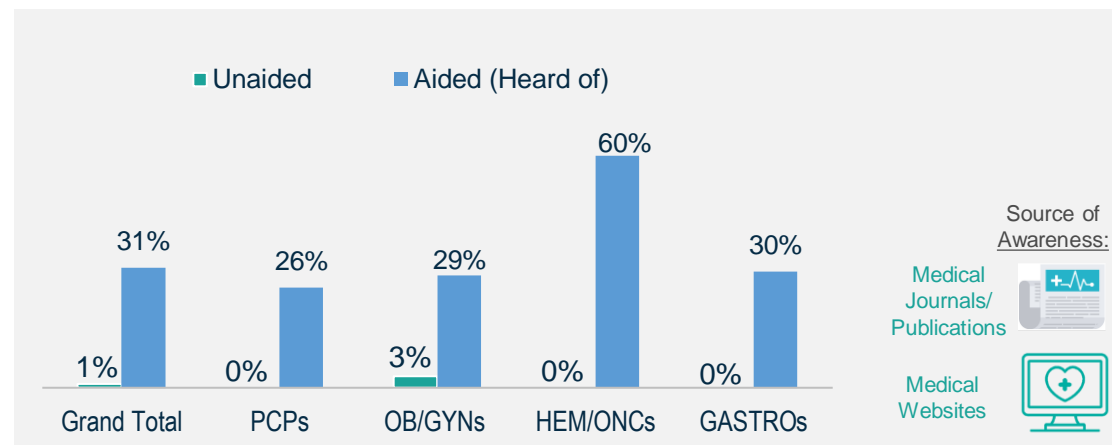


With a broad indication, Accrufer® can target multiple therapy areas

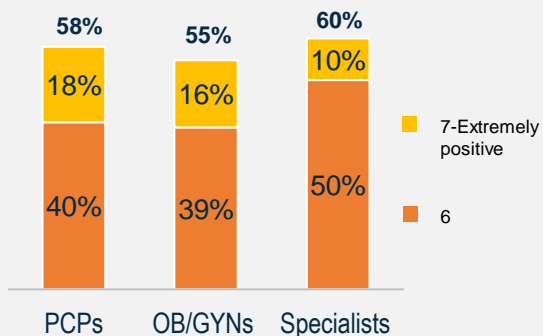
US Launch

Clinicians Respond Favorably to Accrufer® Profile

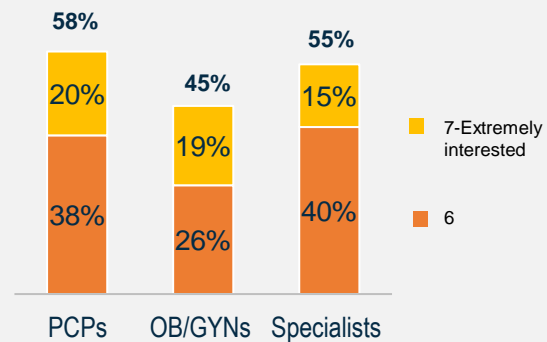
Treatment Awareness and Usage: Accrufer®



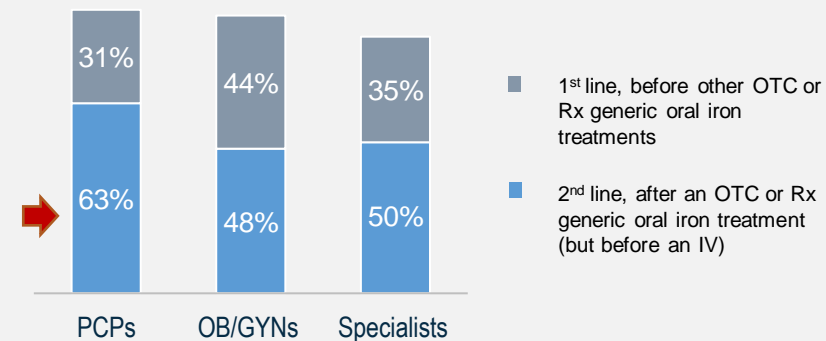
Overall Reaction



Interest in Learning More

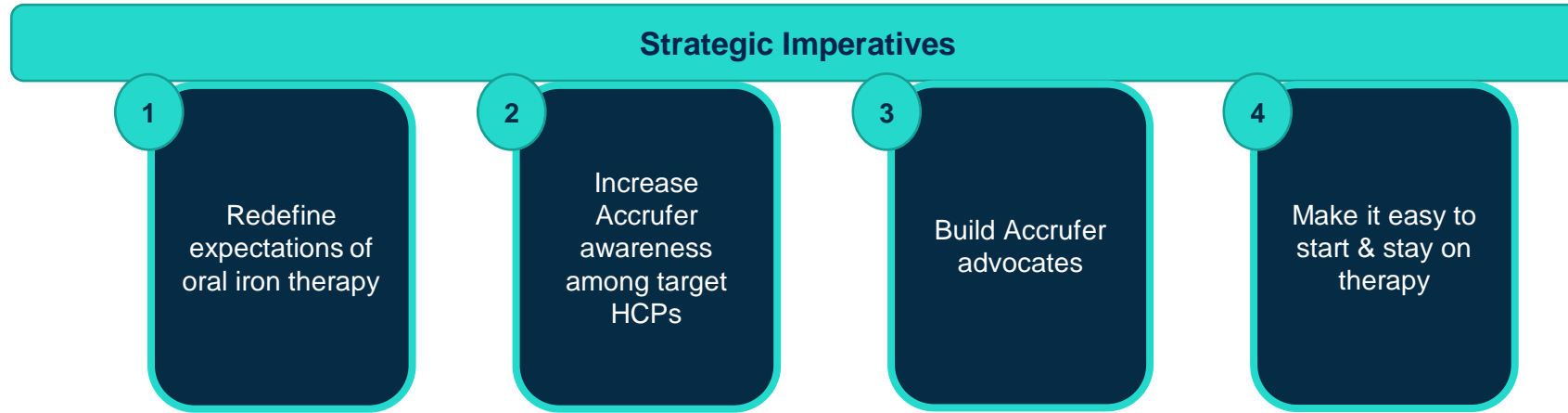


Line of Therapy



N= 101 (49 PCPs, 31 OB/GYNs, 10 Gastros and 10 Hem/Oncs) Specialists = Gastros + Hem/Oncs

Critical Success Factors & Key Focus Areas



Increase awareness of Accrufer®

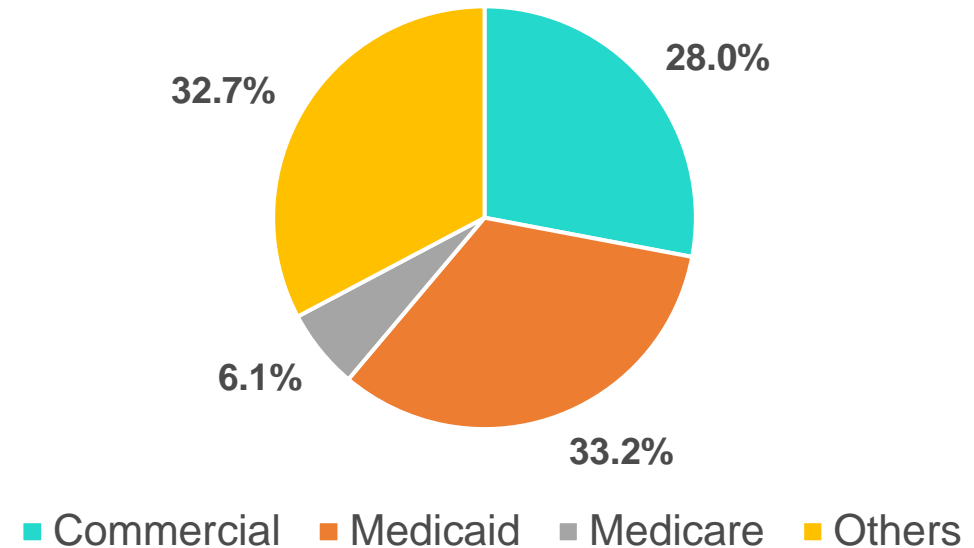
Generate clinical experience with patient access programs

Establish payer coverage

Commercial Plans and Medicaid are Predominant Payers for Oral Iron

- Initial focus on Commercial Payers and PBM's
- WAC Price for one month supply = \$500
- Contracting positioning after failure of OTC/ 2nd line

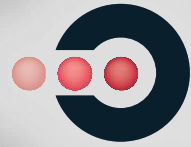
Oral Iron Market: Product Share by Payer Type



Note: *Commercial* Pay Type also includes claims with missing Plan ID, *Others* Pay Type includes TRx volumes as a result of Cash, CHIP and Unspecified Third Party

Source: Medical Claims and Xponent data, 12 month time period ending Dec 2019

IQVIA | Shield | SF Planning: Initial Market Assessment | Feb 2021



ACCRUFER[®]
(ferric maltol) 30 mg capsules

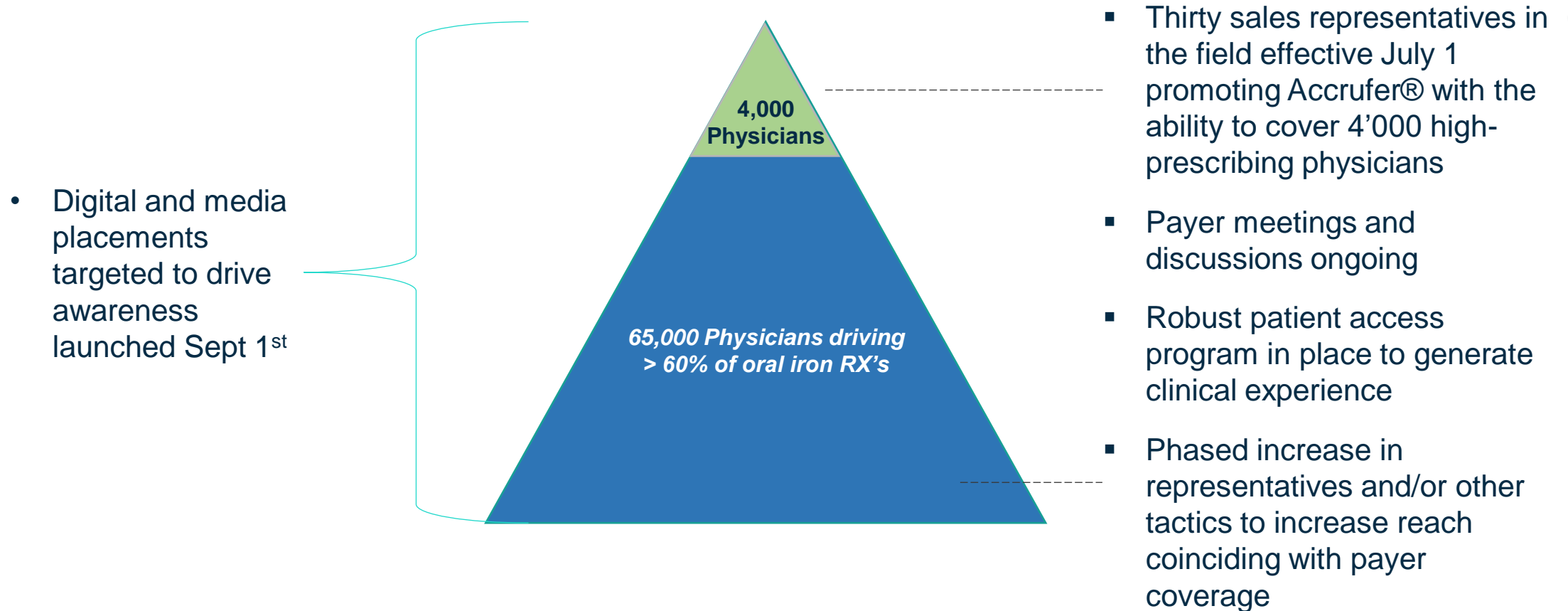
Discover the legend of tolerable oral iron

HEMOGLOBIN RISING

Accrufer[®] is uniquely formulated to provide both effectiveness and takeability in an oral iron replacement¹



Launch Strategy of Accrufer®



Outlook & Summary