

China Healthcare Sector

Release of NRDL negotiation results; overhang removed for domestic PD-1 drugs

- **Significant price cuts for NDRL inclusion/extension.** National Healthcare Security Administration (NHSA) announced the results of NDRL price negotiations. A total of 150 drugs participated in the negotiations, including 119 drugs joining negotiations for the first time and 31 drugs aiming to extend NRDL contracts. 97 out of the total 150 drugs successfully reached agreement with the government, implying a success rate of 65%. 70 drugs are newly added into the NRDL with an average price cut of 60.7% while 27 drugs extend contracts with an average price cut of 26.5%. Especially, the average price cut for three hepatitis C drugs is as high as 85%, given the fierce competition. Besides, oncology and diabetes drugs experienced an average 65% price cut.
- **Overhang removed for domestic PD-1 drugs.** 4 PD-1 drugs participated in the negotiations, including Merck's Keytruda, BMY's Opdivo, Innovent's sintilimab (达伯舒) and Junshi's toripalimab (拓益). It turns out that Innovent's sintilimab is the only PD-1 drug entered into the NRDL. We think Keytruda and Opdivo failing to receive reimbursements for NSCLC indication benefits domestic PD-1 drugs. Domestic PD-1 drugs will have better opportunities to compete with Keytruda and Opdivo in NSCLC indication thanks to significant price advantages. Hengrui Medicine (camrelizumab)'s (艾瑞卡) didn't join this round of negotiation because it just received approval this year. Beigene's tislelizumab (anti-PD-1 mAb) completed all technical reviews by the NMPA and will soon become the sixth commercialized PD-1 product in China. Given current development progress, we believe camrelizumab will receive approval for 1L NSCLC in 2020E while the other three domestic PD-1 drugs will receive NMPA approvals for 1L/2L NSCLC in 2021/22E.
- **Volume ramp up to offset the price decline.** For drugs that are added into the NRDL for the first time, we think sales revenue will accelerate significantly despite large price cuts. For instance, 17 oncology drugs that were added into the NRDL in 2018 with an average 57% price cut. Yet, these 17 drugs achieved an average 20 folds sales growth in 1H19 vs 47 folds volume growth during the same period. NHSA stated that 12 domestic innovative drugs joined this round of negotiation while 8 out of the 12 drugs were included into NRDL. We think domestic innovative drugs will see fast sales ramp-up thanks to early inclusion of NRDL.
- **Hengrui Medicine, SBP, Innovent, Chi-Med, Livzon Pharma benefits from the NRDL revision.** Hengrui Medicine's blockbuster drugs, pyrotinib and 19K, were included into NRDL with price undisclosed. SBP's raltitrexed and lidocaine patch were added into NRDL with 55% and 78% price cut, respectively. Innovent's sintilimab, Chi-Med's fruquintinib and Livzon Pharma's ilaprazole passed the negotiation with 64%, 67% and 39% price cut, respectively. We also notice that Luye Pharma's Lipusu (paclitaxel liposome), Ascleptis' Ganovo (danoprevir) failed to pass the negotiation while three of its competing HCV drugs got reimbursement coverage at an average 85% price cut. 3SBio faces competing pressure from Humira which entered into NRDL by sacrificing 59% of price.

MARKET PERFORM (Maintain)

China Healthcare Sector

Jill Wu, CFA

(852) 3900 0842

jillwu@cmbi.com.hk

Amy Ge

(852) 3761 8778

amyge@cmbi.com.hk

Related Reports

1. Worse-than-expected price cut; eye on R&D names – 25 Sep 2019
2. Sector intact on government initiated audit – 6 Jun 2019
3. "Policy relaxed; eye on innovations and non-medicine sector" – 2 Feb 2019
4. Policies favor leading players; Pay attention to oversold stock. – 19 Jul 2018

- **Remain long-term positive on companies with strong R&D.** We think innovation is still the key success factor for Chinese pharmaceutical companies. Innovative drugs enjoy good reimbursement coverage and fast review process and favorable competition environment. We believe companies with strong R&D capabilities, such as SBP and Hengrui Medicine, will continue to outperform peers in the long term. Nevertheless, we remain cautious for the near term given that potential roll-out of “volume-based procurement” could hurt pharmaceutical companies’ generic business.

Figure 1: 17 cancer drugs added to 2018 NRDL through price negotiation achieved significant growth in both sales and volumes

Generic name	Chinese name	1-2Q 2019 sales YoY	1-2Q 2019 volume YoY
Ibrutinib	伊布替尼	6379%	18074%
Afatinib	阿法替尼	9139%	15947%
Regorafenib	瑞戈非尼	6425%	11830%
Osimertinib	奥希替尼	1225%	4474%
Axitinib	阿昔替尼	808%	3028%
Crizotinib	克唑替尼	398%	1672%
Pazopanib	培唑帕尼	361%	1015%
Cetuximab	西妥昔单抗	92%	471%
Sunitinib	舒尼替尼	29%	240%
Nilotinib	尼洛替尼	-16%	164%
Pegaspargase	培门冬酶	23%	57%
Octreotide	奥曲肽	12%	10%
Average:		2073%	4748%

Source: PDB and CMBIS

Disclosures & Disclaimers

Analyst Certification

The research analyst who is primary responsible for the content of this research report, in whole or in part, certifies that with respect to the securities or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about the subject securities or issuer; and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific views expressed by that analyst in this report.

Besides, the analyst confirms that neither the analyst nor his/her associates (as defined in the code of conduct issued by The Hong Kong Securities and Futures Commission) (1) have dealt in or traded in the stock(s) covered in this research report within 30 calendar days prior to the date of issue of this report; (2) will deal in or trade in the stock(s) covered in this research report 3 business days after the date of issue of this report; (3) serve as an officer of any of the Hong Kong listed companies covered in this report; and (4) have any financial interests in the Hong Kong listed companies covered in this report.

CMBIS Ratings

BUY : Stock with potential return of over 15% over next 12 months
HOLD : Stock with potential return of +15% to -10% over next 12 months
SELL : Stock with potential loss of over 10% over next 12 months
NOT RATED : Stock is not rated by CMBIS

OUTPERFORM : Industry expected to outperform the relevant broad market benchmark over next 12 months
MARKET-PERFORM : Industry expected to perform in-line with the relevant broad market benchmark over next 12 months
UNDERPERFORM : Industry expected to underperform the relevant broad market benchmark over next 12 months

CMB International Securities Limited

Address: 45/F, Champion Tower, 3 Garden Road, Hong Kong, Tel: (852) 3900 0888 Fax: (852) 3900 0800

CMB International Securities Limited ("CMBIS") is a wholly owned subsidiary of CMB International Capital Corporation Limited (a wholly owned subsidiary of China Merchants Bank)

Important Disclosures

There are risks involved in transacting in any securities. The information contained in this report may not be suitable for the purposes of all investors. CMBIS does not provide individually tailored investment advice. This report has been prepared without regard to the individual investment objectives, financial position or special requirements. Past performance has no indication of future performance, and actual events may differ materially from that which is contained in the report. The value of, and returns from, any investments are uncertain and are not guaranteed and may fluctuate as a result of their dependence on the performance of underlying assets or other variable market factors. CMBIS recommends that investors should independently evaluate particular investments and strategies, and encourages investors to consult with a professional financial advisor in order to make their own investment decisions.

This report or any information contained herein, have been prepared by the CMBIS, solely for the purpose of supplying information to the clients of CMBIS or its affiliate(s) to whom it is distributed. This report is not and should not be construed as an offer or solicitation to buy or sell any security or any interest in securities or enter into any transaction. Neither CMBIS nor any of its affiliates, shareholders, agents, consultants, directors, officers or employees shall be liable for any loss, damage or expense whatsoever, whether direct or consequential, incurred in relying on the information contained in this report. Anyone making use of the information contained in this report does so entirely at their own risk.

The information and contents contained in this report are based on the analyses and interpretations of information believed to be publicly available and reliable. CMBIS has exerted every effort in its capacity to ensure, but not to guarantee, their accuracy, completeness, timeliness or correctness. CMBIS provides the information, advices and forecasts on an "AS IS" basis. The information and contents are subject to change without notice. CMBIS may issue other publications having information and/ or conclusions different from this report. These publications reflect different assumption, point-of-view and analytical methods when compiling. CMBIS may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report.

CMBIS may have a position, make markets or act as principal or engage in transactions in securities of companies referred to in this report for itself and/or on behalf of its clients from time to time. Investors should assume that CMBIS does or seeks to have investment banking or other business relationships with the companies in this report. As a result, recipients should be aware that CMBIS may have a conflict of interest that could affect the objectivity of this report and CMBIS will not assume any responsibility in respect thereof. This report is for the use of intended recipients only and this publication, may not be reproduced, reprinted, sold, redistributed or published in whole or in part for any purpose without prior written consent of CMBIS.

Additional information on recommended securities is available upon request.

For recipients of this document in the United Kingdom

This report has been provided only to persons (I) falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended from time to time) ("The Order") or (II) are persons falling within Article 49(2) (a) to (d) ("High Net Worth Companies, Unincorporated Associations, etc.") of the Order, and may not be provided to any other person without the prior written consent of CMBIS.

For recipients of this document in the United States

This report is intended for distribution in the United States to "major US institutional investors", as defined in Rule 15a-6 under the US, Securities Exchange Act of 1934, and may not be furnished to any other person in the United States. Each major US institutional investor that receives a copy of this research report by its acceptance hereof represents and agrees that it shall not distribute or provide this research report to any other person.

For recipients of this document in Singapore

This report is distributed in Singapore by CMBI (Singapore) Pte. Limited (CMBISG) (Company Regn. No. 201731928D), an Exempt Financial Adviser as defined in the Financial Advisers Act (Cap. 110) of Singapore and regulated by the Monetary Authority of Singapore. CMBISG may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, as defined in the Securities and Futures Act (Cap. 289) of Singapore, CMBISG accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact CMBISG at +65 6350 4400 for matters arising from, or in connection with the report.