

Merck Q2 2022 Earnings

July 28, 2022



Agenda



Strategy and Business Update

Rob DavisPresident & Chief
Executive Officer



Business/Financial Results and Outlook

Caroline Litchfield Chief Financial Officer



Research Update

Dr. Dean LiPresident, Merck
Research Laboratories



Question & Answer Session

Forward-looking statement of Merck & Co., Inc., Rahway, N.J., USA

This presentation of Merck & Co., Inc., Rahway, N.J., USA (the "company") includes "forward-looking statements" within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. These statements are based upon the current beliefs and expectations of the company's management and are subject to significant risks and uncertainties. There can be no guarantees with respect to pipeline candidates that the candidates will receive the necessary regulatory approvals or that they will prove to be commercially successful. If underlying assumptions prove inaccurate or risks or uncertainties materialize, actual results may differ materially from those set forth in the forward-looking statements.

Risks and uncertainties include but are not limited to, general industry conditions and competition; general economic factors, including interest rate and currency exchange rate fluctuations; the impact of the global outbreak of novel coronavirus disease (COVID-19); the impact of pharmaceutical industry regulation and health care legislation in the United States and internationally; global trends toward health care cost containment; technological advances, new products and patents attained by competitors; challenges inherent in new product development, including obtaining regulatory approval; the company's ability to accurately predict future market conditions; manufacturing difficulties or delays; financial instability of international economies and sovereign risk; dependence on the effectiveness of the company's patents and other protections for innovative products; and the exposure to litigation, including patent litigation, and/or regulatory actions.

The company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events or otherwise. Additional factors that could cause results to differ materially from those described in the forward-looking statements can be found in the company's Annual Report on Form 10-K for the year ended December 31, 2021 and the company's other filings with the Securities and Exchange Commission (SEC) available at the SEC's Internet site (www.sec.gov).



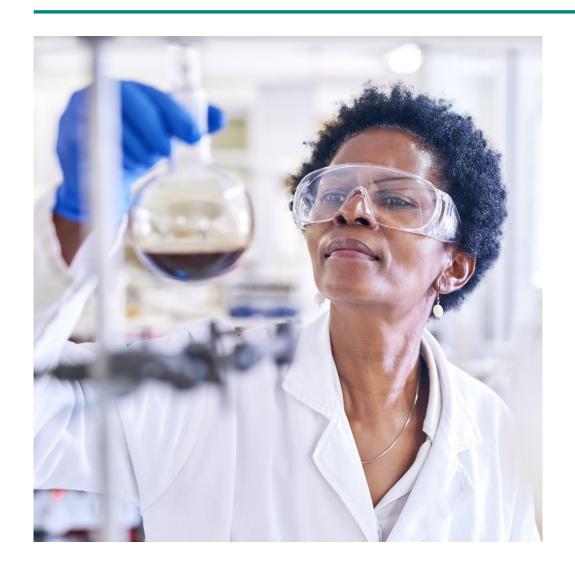
Strategy & Business Update

Rob Davis

President & Chief Executive Officer



Delivered on our key strategic priorities in Q2





Achieved strong commercial and financial performance



Advanced the pipeline to meet patient unmet need



Executed on strategic business development to enhance pipeline



Created long-term value for patients and shareholders

Exceptional 2Q sales and earnings growth¹



Worldwide Sales

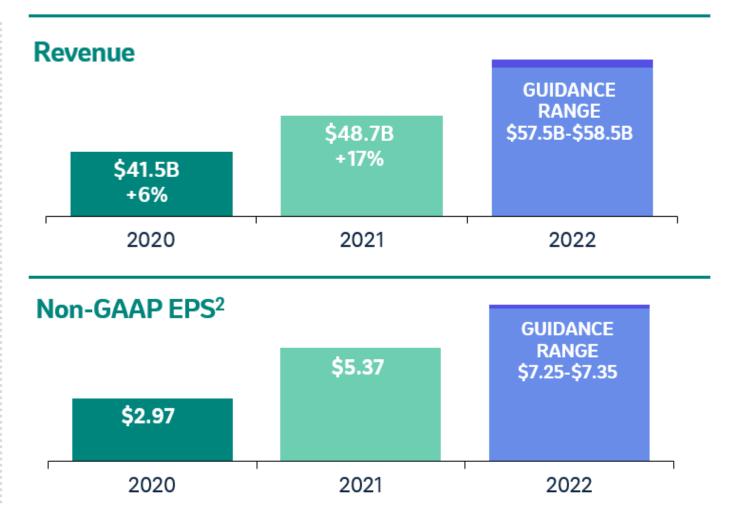
\$14.6B

+28% Ex-LAGEVRIO, +18%



Non-GAAP EPS

\$1.87



^{1.} Results from continuing operations attributable to Merck & Co., Inc. 2. Beginning in 2022, Merck no longer excludes expenses for upfront and milestone payments related to collaborations and licensing agreements, or charges related to pre-approval assets obtained in transactions accounted for as asset acquisitions from its non-GAAP results. For 2020, non-GAAP results have been recast to include \$4.2 billion of incremental R&D expenses, which reduced EPS by \$1.56. For 2021, non-GAAP results have been recast to include \$1.7 billion of incremental R&D expense, which reduced EPS by \$0.65.



Advancing and providing transparency to our deep pipeline



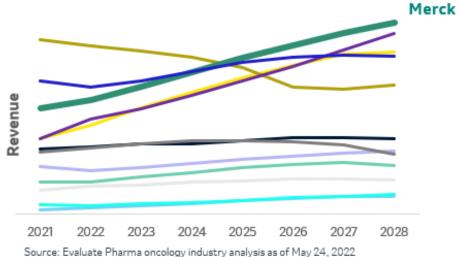
Pneumococcal

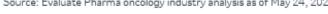
- Made **significant progress** in our populationspecific approach to pneumococcal vaccines with VAXNEUVANCE and V116
 - Received U.S. approval and provisional ACIP recommendation for **VAXNEUVANCE** in pediatrics
 - Presented data for V116 in adults and initiated Phase 3 clinical trials



Oncology

- Hosted an investor event at ASCO to highlight broad oncology portfolio and pipeline
- Reiterated expectation for strong growth trajectory







Well positioned to deliver value to patients and shareholders

Significant progress over the past year in advancing Merck's position as a global biopharmaceutical leader

- Achieving record levels of production in manufacturing
- Delivering strong revenue growth
- Advancing our pipeline
- Providing increased transparency



Business/Financial Results and Outlook

Caroline LitchfieldChief Financial Officer



Strong Q2 sales growth across Human Health and Animal Health



Merck

WORLDWIDE SALES^{1,2,3}

\$14.6B

+ 28% growth +18% ex-LAGEVRIO⁴ +20% ex-exchange, ex-LAGEVRIO⁵



Human Health³

\$12.8B

+28% growth +16% ex-LAGEVRIO⁴ +21% ex-exchange, ex-LAGEVRIO⁵



Animal Health

\$1.5B

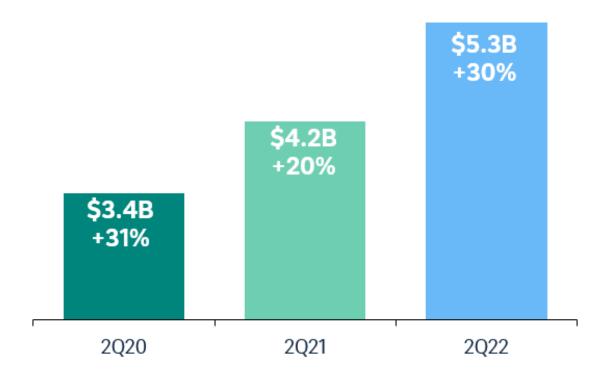
0% growth +5% ex-exchange



Oncology: KEYTRUDA is having profound impact on patients

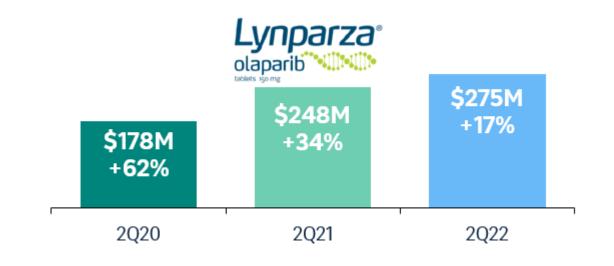
- KEYTRUDA sales of \$5.3B increased 30% year-over-year, driven by robust global demand and expansion into new indications
 - In the U.S., sales of \$3.2B driven by momentum in metastatic indications as well as increased uptake in earlier-stage cancer launches
 - Ex-U.S., 22% growth was driven by global uptake in NSCLC as well as HNSCC and advanced RCC
- KEYTRUDA is continuing to expand into earlier-stage cancers
 - 6 approved indications
 - Strong uptake in certain types of TNBC, RCC and melanoma in the U.S.
 - Encouraging initial trends in treating certain types of TNBC and RCC in key European markets





Oncology: Additional indications benefiting growth of key products

- Lynparza sales increased 17%, with growth driven by adjuvant treatment of certain patients with high-risk early-stage breast cancer following U.S. OlympiA approval
 - Maintaining position as market-leading PARPinhibitor
- Lenvima sales grew 33% driven by demand following recent launches in RCC and endometrial cancer
- WELIREG encouraging uptake in patients with certain VHL-associated tumors





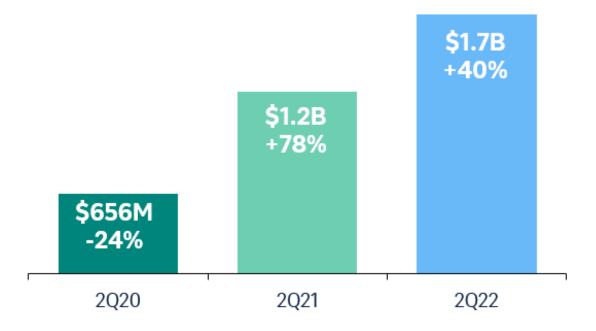


Vaccines: Excellent growth driven by GARDASIL

- GARDASIL sales of \$1.7B increased 40% yearover-year driven by strong demand outside the U.S. and increased supply
 - Ex-U.S., growth was driven by robust demand, particularly in China, and increased supply
 - U.S. sales decreased due to CDC purchasing patterns



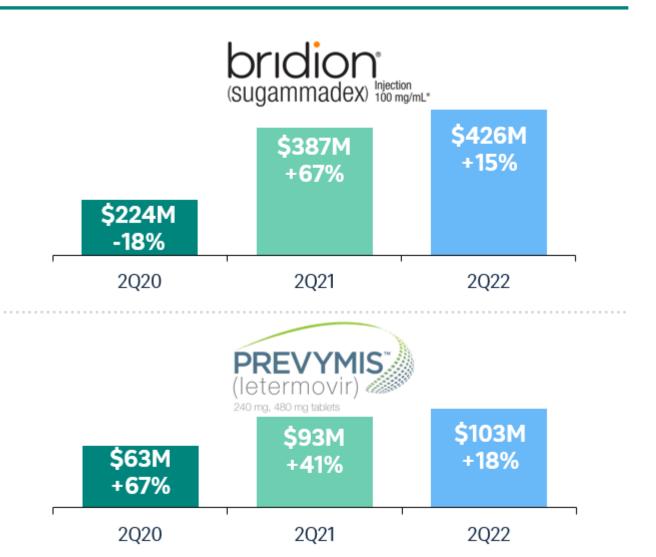






Hospital: Strong global demand across broad portfolio

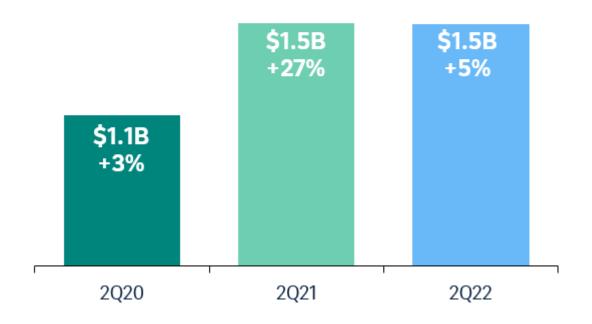
- BRIDION sales of \$426M increased 15% primarily due to greater share among neuromuscular blockage reversal agents and an increase in surgical procedures
- PREVYMIS sales grew 18%, driven by continued strong global demand
- ZERBAXA benefiting from global resupply



Animal Health: Solid demand driven growth

- Animal Health sales increased 5% to \$1.5B, reflecting growth
 - Livestock sales grew 6% reflecting higher demand globally for ruminants and poultry products
 - Companion Animal sales increased 3% due to higher global demand for the BRAVECTO parasiticide line of products





Q2 2022 continuing operations non-GAAP financial results summary: Delivered strong revenue and EPS growth

\$ in billions, except EPS amounts

	Q2 2022	Q2 2021	Change	Change Ex-FX
Sales	\$14.6	\$11.4	+28%	+31%
Non-GAAP Gross Margin	74.7%	76.5%	-1.8pts	-2.5pts
Non-GAAP Operating Expenses	\$5.2	\$6.6	-21%	-19%
Non-GAAP Tax Rate	13.8%	26.7%	-12.9pts	N/A
Non-GAAP EPS that excludes certain items	\$1.87	\$0.61	+>100%	+>100%

Merck is providing certain 2022 and 2021 non-GAAP information that excludes certain items because of the nature of these items and the impact they have on the analysis of underlying business performance and trends. Management believes that providing this information enhances investors' understanding of the company's results because management uses non-GAAP results to assess performance. Management uses non-GAAP measures internally for planning and forecasting purposes and to measure the performance of the company along with other metrics. In addition, senior management's annual compensation is derived in part using a non-GAAP pre-tax income metric. This information should be considered in addition to, but not as a substitute for or superior to, information prepared in accordance with GAAP. For a description of the non-GAAP adjustments, see Table 2a attached to the press release. 2021 non-GAAP results have been recast to reflect R&D business development charges related to Pandion, VelosBio and Oncolmmune totaling \$1.8bn. This reduced previously reported second-quarter 2021 non-GAAP EPS of \$1.31, resulting in revised non-GAAP EPS of \$0.61.

Merck updated full-year 2022 guidance

	Prior Guidance	Updated Guidance	Key Assumptions
Revenue	\$56.9B to \$58.1B +17% to +19% (+19% to +21% ex-FX)	\$57.5B to \$58.5B +18% to +20% (+21% to +23% ex-FX)	 +13% to +14% excluding LAGEVRIO and FX impact Includes \$5.0 to \$5.5 billion of LAGEVRIO revenue Assumes ~3% negative FX impact (vs. prior ~2% negative FX impact)
Non-GAAP Gross Margin Rate ¹	74.0% - 74.5%	74.0% - 74.5%	
Non-GAAP Operating Expenses ²	\$20.3B to \$21.3B	\$20.5B to \$21.5B	Includes upfront payment from recently announced collaboration with Orion
Other (Income) / Expense	~\$350M of expense	~\$500M of expense	Reflects higher than anticipated pension settlement expense
Tax Rate ³	~13.5-14.5%	~13.5-14.5%	
Shares Outstanding	~2.53B	~2.54B	
GAAP EPS	\$5.90 to \$6.02	\$5.89 to \$5.99	
Non-GAAP EPS ^{4,5}	\$7.24 to \$7.36	\$7.25 to \$7.35	 Assumes ~3% negative FX impact (vs. prior ~2% negative FX impact)

^{1.} GAAP Gross Margin Rate: ~69%. 2. GAAP Operating Expenses: \$21.0 to \$22.0 billion. 3. GAAP Tax Rate: ~12.0% - 13.0% 4. The GAAP to non-GAAP reconciliation is available in Merck's Q2 2022 earnings release 5. Beginning in 2022, Merck no longer excludes expenses for upfront and milestone payments related to collaborations and licensing agreements, as well as charges related to pre-approval assets obtained in transactions accounted for as asset acquisitions from its non-GAAP results. Prior periods have been recast to reflect this change



Key modeling considerations

COVID-19 Impact

- Pandemic unfavorably impacted 1H 2021 sales by ~\$1.0B, providing a tailwind to 1H 2022 growth
- Expect tailwind to year-over-year growth to lessen over the remainder of 2022

Other Revenue

- Includes ongoing supply sales to OGN and JNJ, revenue hedging program and out-license receipts
- Expect Other Revenue to be higher in 2H vs 1H 2022

Pneumococcal

 Expect continued impact to PNEUMOVAX23 in the U.S. as market shifts toward newer pneumococcal conjugate vaccines

Animal Health

- Normalization of favorable companion animal industry trends
- Expect foreign exchange headwinds given geographic mix
- Expect above market growth in 2022

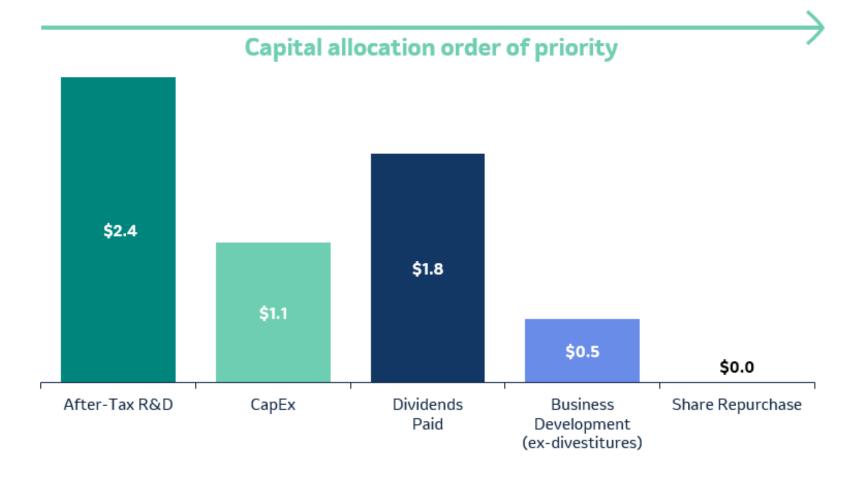
LAGEVRIO

- Maintain full year guidance of \$5.0B to \$5.5B
- Expect 2H 2022 sales to be weighted to 4Q



Remain committed to balanced capital allocation strategy

\$ Billions¹



Continue to prioritize investments in our **pipeline** and **business** to realize value of near- and long-term opportunities



Research Update

Dr. Dean LiPresident, Merck Research Laboratories



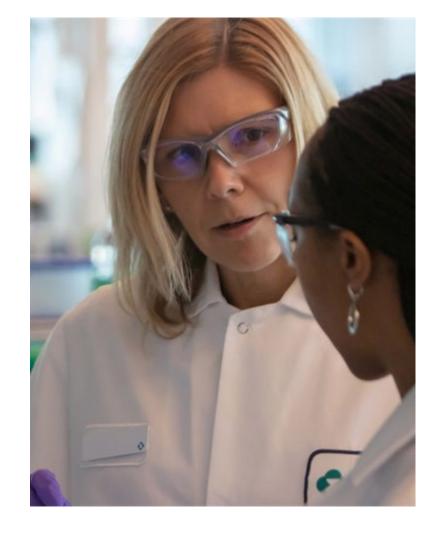
Driving value for patients and shareholders by progressing our pipeline

Key regulatory milestones since the last earnings call:

- In the US:
 - Received FDA approval and ACIP unanimously voted to provisionally recommend VAXNEUVANCE as an option for the prevention of invasive pneumococcal disease in infants and children
 - FDA accepted for review a new sBLA seeking approval for KEYTRUDA in KN-091 for the adjuvant treatment of patients with stage IB (>4 centimeters), II or IIIA NSCLC
- In the EU:
 - Received 4 EMA approvals for KEYTRUDA: in cervical cancer based on KN-826; in MSI-H or dMMr tumors in five different cancer types based on KN-164 and KN-158; and as adjuvant treatment for patients 12 years and older with completely resected stage IIB or IIC melanoma based on KN-7162
 - Received positive CHMP opinion for Lynparza in adjuvant breast cancer based on OlympiA
- In China:
 - Received approval for Verguvo¹ in certain patients with chronic heart failure and reduced ejection fraction

Key data & clinical advancements since the last earnings call:

- Presented data across broad oncology portfolio at ASCO, including for KEYTRUDA (KN-716, KN-522, KN-826) as well as Phase 1/2 data for favezelimab (anti-LAG-3) in classical Hodgkin lymphoma
- Presented positive results at ISPPD from the Phase 1/2 study, evaluating the safety, tolerability and immunogenicity of V116; initiated Phase 3 clinical trials
- Positive readout for KEYTRUDA + Padcev (KN-869 or EV-103) in first line urothelial cancer in patients ineligible to receive cisplatin-based chemotherapy³



Advancing population-specific pneumococcal vaccine development program



VAXNEUVANCE Adult (PCV15)

Recommended for use in sequence with PNEUMOVAX 23

Approved 2021

V116 (PCV21)

Investigational candidate specifically targeting adult disease and covering serotypes that account for 85% of all invasive pneumococcal disease in US adults ages ≥65¹

Enrolled first patient in Phase 3 trial (STRIDE-3)



VAXNEUVANCE Pediatric (PCV15)

Expanding coverage while maintaining protection against historically invasive disease-causing serotypes in children

Approved 2022

V117

Investigational candidate specifically targeting pediatric disease

Phase 1 in progress



Continuing to build on momentum in oncology

Earlier-stage

- Broadest IO clinical development program
- KN-091 for adjuvant treatment of certain patients with stage IB to IIIA NSCLC¹ following complete surgical resection under FDA review
- Expanded analyses and data on new endpoints and key subgroups presented at ASCO
 - KN-716: adjuvant therapy for certain patients with stage IIB and IIC melanoma
 - KN-522: neoadjuvant / adjuvant high risk early stage TNBC
 - KN-564: adjuvant treatment for RCC at intermediate-high or high risk of recurrence post nephrectomy

Global highlights

- Four EMA approvals for KEYTRUDA
 - KN-716: adjuvant therapy for patients
 12 years and older with completely resected stage IIB and IIC melanoma
 - KN-522: neoadjuvant / adjuvant high risk early stage TNBC
 - KN-164 and KN-158: MSIH and dMMR in 5 different cancer types¹
 - KN-826: certain types of persistent, recurrent or metastatic cervical cancer
- Positive CHMP opinion for Lynparza for adjuvant treatment of breast cancer based on OlympiA²
- Positive topline results announced in Phase 1b/2 study of KN-869 or EV-103 in first line treatment of certain patients with advanced urothelial cancer in collaboration with Seagen and Astellas

Prostate cancer

- Executing on business development and licensing strategy
 - Collaboration with Orion for ODM-208 an investigational oral, steroid synthesis inhibitor
- Complements broad program including combinations with chemotherapy and antiandrogen therapy (KN-921, KN-641, KN-991, PROpel)



LAGEVRIO represents an important treatment option against COVID-19 for high-risk, non-hospitalized patients

- Pandemic continues to evolve with regional surges
- Emerging evidence of the threat of resistance to antibody therapies with new variants
- LAGEVRIO is well-positioned to play a role for appropriate high-risk patients due to its key attributes:
 - Oral treatment option
 - Low propensity for drug-drug interactions
 - High barrier to resistance
- Real-world data from Denmark, Hong Kong and Poland support utility of LAGEVRIO





Q&A



Rob DavisPresident & Chief Executive Officer



Caroline LitchfieldChief Financial Officer



Dr. Dean LiPresident, Merck Research Laboratories



Peter Dannenbaum Vice President, Investor Relations



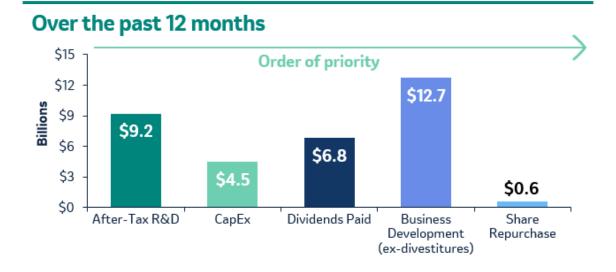
Appendix

Q2 2022 continuing operations GAAP financial results summary

\$ in billions, except EPS amounts

	Q2 2022	Q2 2021	Change	Change Ex-FX
Sales	\$14.6	\$11.4	+28%	+31%
Operating Expenses	\$5.3	\$6.6	-20%	-18%
Tax Rate	12.0%	29.3%	-17.3pts	N/A
GAAP EPS	\$1.55	\$0.48	+>100%	+>100%

Capital allocation: Trailing twelve months



Capital investments

2022 to 2026

~\$16B

Over 5 years, including expanding manufacturing capacity for Oncology, Vaccines, and Animal Health. Includes >\$10B in the U.S.

Well positioned balance sheet with capacity to fund additional value-enhancing business development opportunities

Commitment to the dividend





Broad and innovative pipeline to solve significant unmet medical needs

Phase 2				Phase 3		Under regulatory review	
Oncology					Oncology		Oncology
MK-0482 NSCLC MK-1026 (nemtabrutinib) Hematological Malignancies MK-1308 (quavonlimab) NSCLC MK-1308A (quavonlimab +pembrolizumab) Advanced Solid Tumors HCC CRC SCLC Melanoma MK-2140 (zilovertamab vedotin) Breast Gastric Ovarian Pancreas NSCLC Hematological Malignancies Solid Tumors	MK-4280 (favezelimab) NSCLC Hematological Malignancies MK-4280A (favezelimab+pembroli zumab) RCC SCLC MK-4830 NSCLC SCLC RCC RCC RCC Melanoma	(ladiratuzumab vedotin) Breast NSCLC SCLC HNSCC Esophageal Gastric Prostate Melanoma WELIREG (MK-6482) Rare Cancers CRC Pancreatic Biliary HCC	LENVIMA (MK-7902) Biliary Glioblastoma Prostate SCLC Pancreas MK-7684 (vibostolimab) Melanoma MK-7684A (vibostolimab +pembrolizumab) Biliary Cervical CRC Esophageal Breast HNSCC HCC Endometrial Prostate Hematological Malignancies	TUKYSA (MK-7119) Advanced Solid Tumors CRC Gastric Endometrial NSCLC Bladder Biliary Cervical V937 Melanoma Breast CSCC HNSCC Solid Tumors	KEYTRUDA (MK-3475) Biliary Tract CSCC (EU) Gastric (EU) Hepatocellular (EU) Mesothelioma Ovarian Prostate SCLC MK-1308A (quavonlimab +pembrolizumab) RCC MK-7684A (vibostolimab +pembrolizumab) NSCLC SCLC MK-4280A (favezelimab +pembrolizumab) CRC Infectious disease Islatravir (MK-8591)1 HIV-1 prevention	Breast MK-3475 (pembrolizumab subcutaneous) NSCLC	KEYTRUDA (MK-3475) Cervical (JPN) Adjuvant RCC (JPN) High-risk early stage TNBC (JPN) 2L HCC (US) Adjuvant NSCLC (US, EU) LYNPARZA (MK-7339) Metastatic 1L Prostate (EU, JPN) BRCA-mutated HER2-negative adjuvant Breast (EU, JPN) LENVIMA (MK-7902) 1L HCC (US) Vaccines V114 Pneumococcal Vaccine, adult (JPN) General medicine Gefapixant (MK-7264) Cough (US, EU)
Vaccines	Neur	roscience	General r	medicine	MK-8591A (doravirine+is	latravir) ¹	Infectious diseases Molnupiravir (MK-4482) ²
V184 Chikungunya Virus	MK-818 Schizop		MK-1942 Treatment Re	esistant Depression	HIV-1 Infection Molnupiravir (MK-4482) COVID-19 antiviral		COVID-19 antiviral (EU)
Cardiovascular	Infec	tious diseases	MK-3655 —— NASH		Vaccines		
MK-0616 Hypercholesterolemia		91B (islatravir+MK-8507) ¹ nfection	MK-6024 NASH		MK-1654 Respiratory Syncytial Viru	ıs	
MK-2060 Cardiovascular MK-5475		91D (islatravir+lenacapavir) ¹ nfection	MK-7075 Overgrowth S	Syndrome	V116 Pneumococcal vaccine, ac		
Pulmonary Arterial Hyperte On clinical hold ² U.S. NDA h					Cardiovascular Sotatercept (MK-7962) Pulmonary Arterial Hyper	tension	As of July 28, 2022