

Measuring the Impact of Medical Affairs

Part 2: Building a strong foundation of operational effectiveness



“While an important element, teams often get caught up focusing solely on strategy and evidence they should be generating rather than looking at business issues and leveraging operational components that make it happen. The operational engine is a critical component and needs to be under tight observation.”

Todd Fox

Senior Vice President, Head of Global Medical Affairs, Teva

We recently introduced our **medical impact model**, a practical approach to measuring medical impact. The foundation of this model, **operational effectiveness**, focuses on the activity and productivity measures of the medical affairs organization and is the subject we will address in this paper.

As with any foundation, the stronger it is, the better you can build on it, and the better it will support your success moving forward. Therefore, it's essential to execute these foundational measurements well so your organization can both operate efficiently and measure impact in more complex areas – those closer to the patient – including changing medical practice and improving patient outcomes.

We've brought industry leaders¹ together to share best practices and learnings to help medical affairs teams build – or strengthen – their operational foundation. They'll advise on topics like leveraging data and technology, securing buy-in from internal stakeholders, telling your story, and, most importantly, getting started.

¹The views expressed in this white paper are those of the authors and do not necessarily represent the views of their respective companies.

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This is the first and most important step toward an impact-led medical affairs organization. Establishing this foundation will help you identify what you need – across people, technology, and data – and evaluate future investments in your journey to measuring medical impact.



Christoph Bug, MD, PhD, MBA
Vice President, Global Medical
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“Operational metrics are baseline metrics – in terms of **quantity** – that let me know the MSL is waking up in the morning and getting out of bed. We need to take it a step further and start to put more emphasis on measuring the **quality**, and that involves focusing on the outcome measures.”

Leona Blustein

National Director Medical Science Liaisons, Idorsia Pharmaceuticals

Most medical affairs organizations today are focused on three key objectives:



Customer Excellence

Making sure customers have a good experience



Operational Efficiency

Working on more of the “right” things with limited resources



Demonstrating Impact

Measuring how actions affect outcomes

To take action in these areas – and be successful in each – you need a well-functioning operational engine. This requires a strong foundation of operational data that teams can leverage to make data-driven decisions and connect activities with impact.

However, we’ve observed that many medical affairs organizations struggle with managing this operational data. Compared to other functions like commercial and R&D, medical affairs lags in capturing, organizing, and using data.

Stefan Florentinus, head of global immunology strategy and execution at AbbVie, points out that medical affairs faces several challenges when it comes to being more data-driven. He cites three common themes:

- 01.** The scope of medical affairs is very broad ranging across almost the whole pharmaceutical process.
- 02.** There is a lack of agreement around what core functional objectives medical affairs owns.
- 03.** Compliance frameworks do not always allow medical activities to be linked to sales metrics.

However, Florentinus states, “Medical affairs teams should, based on aligned cross-functional strategies, decide where they should focus, build a plan with measurable outcome metrics, and collect data. This will help to show our impact.”

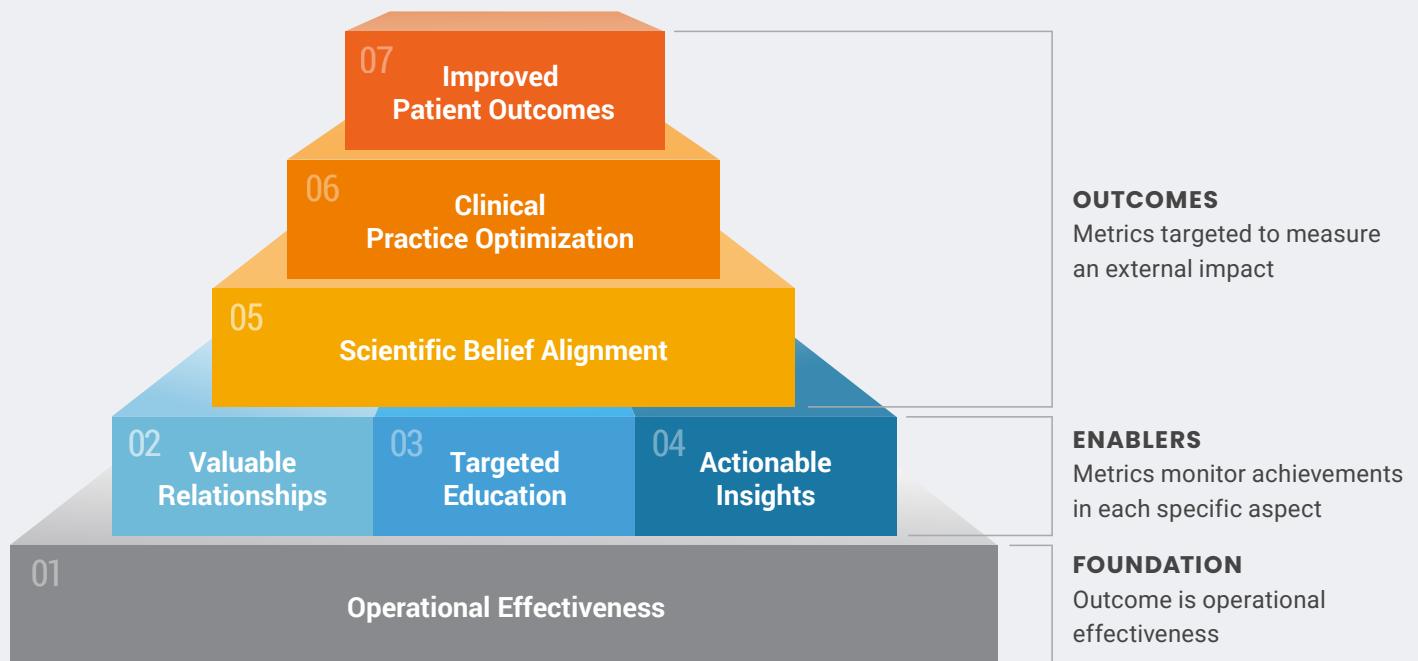
Operational effectiveness within the medical impact model

Measurements of operational effectiveness are the foundation of Veeva's **medical impact model**. It focuses on the activity and productivity measures of the team. The metrics are relatively basic and easy to quantify, and the focus is to evaluate how performant the organization is by asking:

- Did we achieve what we had planned to do?
- Are activities performed with expected intensity and quality?
- How effective are we in doing so?
- Did we define measurable goals?
- Do we collect the right data?
- Do others see and value what we do?
- How does this compare to other groups within the organization or other companies?

The Medical Impact Model

The medical impact model is a framework to structure exchange on the intricate topic of measurement. Every module stands for a desired outcome and how medical affairs teams can approach measuring each.



Why operational effectiveness is important

“The need to show value becomes even more important as medical affairs evolves into the third strategic pillar in pharma along with commercial and development. Medical is a big investment for the company, and we need to demonstrate outcomes to get additional investment.”

Deborah Braccia

Senior Vice President, Head of Global Medical Affairs Excellence, Kyowa Kirin

Some medical affairs leaders have considered moving away from “vanity” or operational metrics, including coverage, frequency, calls per day, time in field, time to med info response, and number of publications. While they don’t connect to outcomes or impact, these types of metrics are important and teams still need to capture and track them. In addition, however, teams also need to capture outcome metrics. While both metrics are important in and of themselves, the value comes in looking at them together.

OPERATIONAL METRICS

Number of activities

- First-time engagements**
- Interactions per day**
- Group meetings**
- Medical education events**
- Publications**

OUTCOME METRICS

Results of those activities

- Improved patient outcomes**
- Clinical practice optimization**
- Valuable relationships**
- Targeted education**
- Actionable insights**

How operational and outcome metrics work together

A car race is a simple way to examine how operational and outcome metrics work together. The race team constantly captures operational data, but without knowing which race position the car is in, those metrics are meaningless. On the other hand, if the team only captures the race position — but not operational metrics — the car may win the race, but the team won't understand why.

Teams look at both operational and outcome metrics to repeat success or make improvements on the race course.



Christine Castro, director, medical affairs omnichannel engagement at Novo Nordisk, believes that once you bring a collection of foundational metrics it starts to open up medical affairs' "eyes" to one another. "We can gain some quick wins, then expand collectively to gain a broader view of activity across medical affairs."

As Florentinus points out, "There is no agreement on what the foundational metrics are or the "currency" of medical affairs. However, medical affairs teams can and should decide on what these metrics are for their organization. Then get cross-functional agreement on them and start to measure them."

Approaching operational effectiveness: Best practices from industry leaders

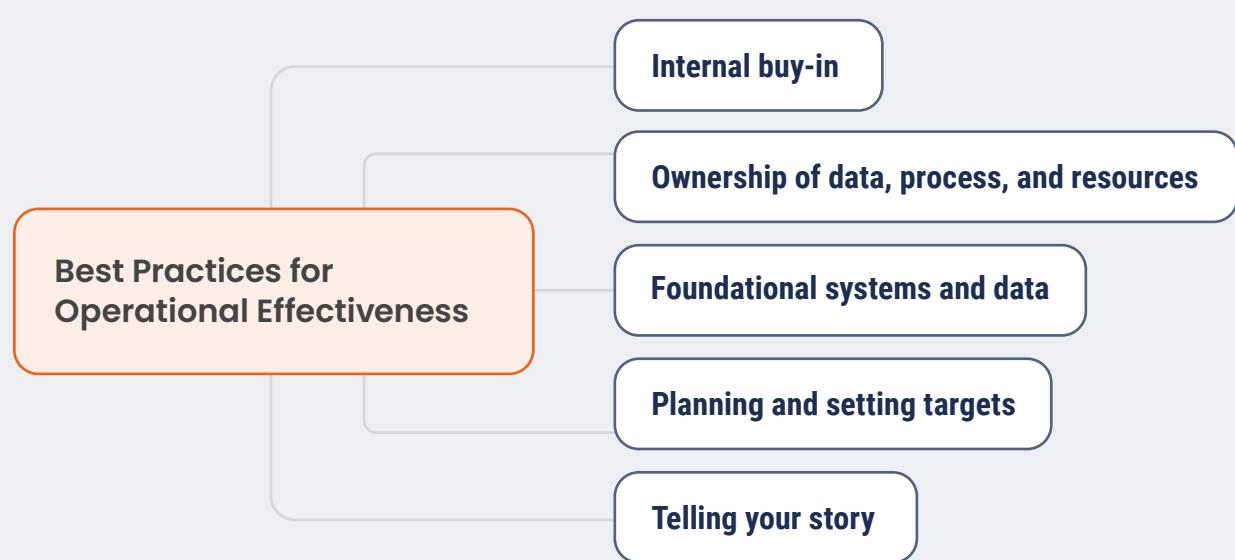
“Medical affairs remains focused on the science, the ‘art’ of pharma. Effectiveness metrics allow for review and inspection on a business level that is relatively new for us.”

Christine Castro

Director, Medical Affairs Omnichannel Engagement, Novo Nordisk

We can talk about operational effectiveness in theory, but how do you put it into practice with your own medical affairs team? We've collaborated with industry leaders who are successfully implementing this foundation.

The advice falls into five distinct areas that can help you navigate this journey within your organization and allow for emphasis on measuring quality and impact. While not a step-by-step process, you can use these areas as a guide to assess the maturity of each in your own organization.



Overcome hesitancy and secure internal buy-in

We often observe that many medical organizations are skeptical of measuring impact. This may come from the belief that trivial indicators cannot adequately measure the complex art of exchanging science with experts. Or, it could come from the feeling that transparency creates vulnerability and opens the organization up to external influence from other functions. Some may also deem this to be non-compliant.

Florentinus argues that this new scrutiny of medical affairs is advantageous for the function. Requests for operational metrics demonstrate that the organization wants a strong medical affairs team. "It's coming from a very good place, and we are actually in a very good position," he says.

Focusing on operational metrics – and presenting them internally – is a journey. Medical affairs teams must manage accordingly and address any key concerns rapidly. One of the first steps in this process is to secure buy-in from executive management and your medical affairs team.

Deborah Braccia, senior vice president, head of global medical affairs excellence at Kyowa Kirin, feels that many medical affairs teams see the focus on operational metrics as something punitive. "We need to start flipping that perspective," she says. "It's positive to show how much we do in medical affairs and how much value we bring."

Castro advises that to secure internal buy-in, you must present two things. Medical affairs needs to ensure internal stakeholders understand the reasons behind and clearly describe the measures of success. "Pushback and fear happen when the result and intention of the measurement aren't clearly understood," she says. "I try to show stakeholders where they can benefit and how these measurements work to their advantage and underlie their success."

Take ownership of data and processes

"It is critically important that you [medical affairs] control the whole process. From data capture and analysis to visualization and communication, ensure you own the narrative and have the resources, experts, and data that work for you."

Stefan Florentinus

Head of Global Immunology Strategy and Execution, AbbVie

Industry experts agree that the key to successfully measuring operational effectiveness in medical affairs is having authority over its data, processes, and resources. Medical affairs must understand the outcome metrics and how to interpret them before they share the narrative with other functions and internal stakeholders.

While Castro agrees that there is sometimes dependency on other departments for datasets, she encourages medical affairs teams to “own” their data and processes as much as possible. “Once you are comfortable with your data, you can ask for help analyzing it and creating dashboards,” she says. “But first, you must own your data and understand what it is saying or not saying.”

Braccia executed several different workshops with her global medical leadership and regional teams across the medical affairs organization to decide specific metrics. They made sure that this data was captured when developing their solutions and could be monitored appropriately. “It’s great to say you’re going to measure x,y, z, and impact, but how do you get there, and how do you get the data you need?” she says. Recently, Braccia had teams in four separate regions collecting data, but they all defined things differently. “We first had to establish a standard lexicon and definitions, and then how to capture it.”

Get foundational systems and data right

“Some organizations are more mature, and there are bigger companies with whole teams focused on data analytics that might do this better. But no one has figured this out completely.”

Deborah Braccia

Senior Vice President, Head of Global Medical Affairs Excellence, Kyowa Kirin

Many medical leaders worry they are behind in measuring operational effectiveness. Establishing the right fundamentals should be the priority. Braccia clarifies that many organizations are still working through the process, data, and operating models to put in place.

Braccia initiated this process at Kyowa Kirin. “We had no foundational data at the start, which made it difficult to make sense of anything, and that was the rationale we had in establishing baseline solutions such as a global CRM, medical information, and medical content management,” she says. “From these systems, we can start to analyze that foundational data.”

As Florentinus points out, “You have to start somewhere. Keep it simple, and then progress.” He suggests starting with cross-functional strategic imperatives, scoping functional contributions, and setting lagging and leading indicators. “Then measure against these,” he says.

Once you have the full technology stack in place and resources to support analysis, you have to learn to leverage what you have to the fullest. For example, Todd Fox, senior vice president, head of global medical affairs at Teva, initiated an internal review of his organization’s technology stack. “We discovered that we have the right tools but need to encourage our team to start utilizing them,” he says.

Blustein experienced something similar at Idorsia. "I feel like this is the same across so many companies," she says. "We have many datasets available across many platforms but the struggle is being able to bring it all together to be able to digest and analyze it all in order to draw conclusions."

Many industry leaders gave similar advice: Work with trusted vendors or other experts to help you identify untapped potential in your technology investment. This step is critical to accelerating the journey to measuring operational effectiveness by identifying low-hanging fruit to maximize the value of the investments you've already made.

The three categories of metrics we consider essential to building or improving a foundation of operational effectiveness are:

- 01. Volume of customer interactions** in relation to resources applied.
- 02. Number of customers** engaged with, together with information on their importance.
- 03. Total number of activities** (up to three) that are key for your function. Those could be medical information requests answered, asset publications, clinical trials supported, scientific presentations given, and more.

We've provided a workbook in the [Appendix](#) to help you organize your thoughts, formulate a strategy, and put it into action. It includes a checklist of questions to evaluate what areas you already have in place and those you may need to work on. There's also a robust list of potential metrics and associated data sources you can use as a thought-starter exercise when thinking about operational effectiveness with your immediate team or organization.

Choose the right data sources

"The advice I always give to someone getting started is to determine what can be measured now. What's already in place that you have at your disposal? What's automated? What can you just count? You are probably already doing something. Dive in and that will build momentum as soon as you get the right information to the right people."

Christine Castro
Director, Medical Affairs Omnichannel Engagement, Novo Nordisk

Most of the foundational data used to measure medical operational effectiveness is stored in CRM solutions, a tool that serves as the central hub for your activities. You can use these solutions to plan and execute engagements, and ideally, they have additional functionality to capture content utilization and sentiment automatically.

Other data sources can be tools that manage medical content or medical information fulfillment. Some, for example, measure the number of medical information requests coming in and the time the organization needs to send the response out as a metric. Others count the number of publications or assets produced, reviewed, or distributed.

Many tools will not allow automated data capture, but start with what you have and leverage all available tools. In some cases, this will be Excel and Word.

Castro reminds us that this is a journey. "If you get to where you're going and haven't collected the data, you have to turn back around and do it again," she says. "You need to have that arsenal of foundational and execution data." The next piece is to have the governance and process to take the data and see what it says. "You have to be brave enough to change what you do based on what the data says."

One suggestion from medical leaders was to use or pilot customer satisfaction surveys to help substantiate their organization's value. Although this data is less robust, it can be helpful to tell a good story. Consider leveraging surveys to gather feedback from internal customers to see how they perceive what medical affairs does and how it makes their job easier.

Braccia is piloting both internal and external customer surveys at Kyowa Kirin. "We want to find out if we meet our customers' needs and whether we provide value," she says. "This is one great way to find out."

Create a plan and set targets

"You should have a KPI target for the year and then monitor it. From that, you can form an impact point of view where you can say, yes, we showed our impact because we were able to deliver on this operational part."

Todd Fox

Senior Vice President, Head of Global Medical Affairs, Teva

It's great to have metrics, but setting targets before the activity starts is essential to effective execution. This shows organizations how to invest resources and how it is performing. Setting targets drives change in behavior, too.

Braccia's team puts together action plans before the start of the year. "We look at the KPIs to see if we are meeting the objectives that we put into the action plan regarding evidence generation activity, publications, and more," she says.

Castro looks at three perspectives of an operational metric:

- 01.** Completion metrics, such as how many times you have performed the task
- 02.** Efficiency metrics, showing how well you have done the tasks and how many resources were invested
- 03.** Impact metrics, showing what you achieved

She says the first thing you need to do is count the number of times you do something. "The first thing we typically miss is not measuring what we do," she says. "Without that, you can't even try to improve effectiveness."

Owning your narrative

"Make sure you own your narrative. After you have the data and it is analyzed, medical affairs should proactively share it with the organization and provide an explanation. If not, there is a risk that someone else will provide a different interpretation. There is a big opportunity for leveraging and using the data for the better."

Stefan Florentinus

Head of Global Immunology Strategy and Execution, AbbVie

Earlier, we discussed how important it is for medical affairs to own their data, resources, processes, and operating models. However, it is also critical to ensure that when the data is curated, analyzed, and shared within the organization, medical affairs also explains the results.

Castro feels that medical affairs has a history, and if someone else tells the narrative for medical affairs, the organization becomes vulnerable.

But fully controlling the process, mastering your data, and owning your narrative might not always be possible. This should not stop you from moving on. "Sometimes it does come down to resources," states Fox. "If you don't have all the resources, you will never be able to control everything that you need to control." He says then you have to be collaborative. Think about how you plug into those other parts of the organization from an operational perspective to leverage where they can help you from what they are doing.

Conclusion

Most medical affairs organizations are already measuring operational effectiveness to some extent. The key for most will be to improve data input, increase analytics and reporting capabilities, and proactively benchmark performance. Whether putting a new foundation in place or improving on what you have, just getting started is half the battle.

Doing so means taking ownership of the process, people, and data to tell your impact story. This most likely means changing what you are doing now, and while you may not have been officially measuring impact, you know what contributions are the most important.

What are some next steps? Review and share the best practices outlined in this paper to see how you might apply them to your organization. Utilize the **Medical Impact Workbook** in the Appendix for working sessions with your team. The tools there will help you assess the maturity of your key areas and explore potential metrics and data sources.

Our next paper will explore further modules in the impact model. The overarching goal across these modules is connecting with the right stakeholders, getting them the right information, and bringing key insights back to the organization. A solid operational effectiveness foundation will support these areas and help you succeed quickly.



"I hope in five years we are not singing the same tune," says Castro. "I see a paradigm shift for medical affairs in how we tell our story versus answering a question. We will get there by reaching out to find partners across the aisle to drive change and by owning our narrative."

APPENDIX

Medical Impact Workbook

Evaluation of Key Areas and
Potential Metrics

Medical Impact: Evaluation of Key Areas

Use this checklist to help you evaluate key areas across your organization.

Tools:

- ❑ Do you know which systems/tools you have access to in medical affairs?
- ❑ Are there differences by region/country?
- ❑ Does one (or more) entity have additional tools?
- ❑ Are you leveraging the systems/tools to their fullest potential?
- ❑ Does everyone in the organization who should (individuals/regions/countries) have access to the tools?
- ❑ Are people trained sufficiently to use the tools?
- ❑ Are people using the tools as they should/ as is expected of them (i.e., is there high adoption of the tools)?
- ❑ Are the users satisfied with the functionality/performance/user experience of the tools?
- ❑ Are colleagues equipped with the right devices to use the tools?

NOTES:

Content processes:

- ❑ Is the process of presenting content to stakeholders clear and aligned across regions/countries?
- ❑ Do users know where to find content?
- ❑ Do users know how to best present content?
- ❑ Is content tagged accurately to measure usage and effectiveness?
- ❑ Is there a single source of truth for content (with version control)?

NOTES:

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Data:

- ❑ Do you know where your medical operations data is stored?
- ❑ Do you know which metrics are captured automatically?
- ❑ Do you know what other data is stored in addition to operational metrics?
- ❑ Do you know who has access to the data?
- ❑ Do you know who is responsible for the analysis of your data?

Reporting:

- ❑ Is automated reporting in place?
- ❑ Is regular manual reporting in place?
- ❑ Is any data shared with senior management/field operations teams?

Clarity of expectations:

- Are the user expectations on content usage clear (i.e., % of interactions with content shown)?
- Are the expectations regarding other tool usage clear (i.e., email follow-ups after interactions)?
- Are the expectations regarding logging of interactions clear (i.e., frequency, delay after interaction, content)?

NOTES:

Resource allocation for documentation:

- ❑ Are the applied resources (headcount, time in field days, etc.) captured?
- ❑ Are the resources allocated to the appropriate therapeutic areas/products?
- ❑ Are the applied resources for different customer segments (priorities) captured?

Medical Impact: KPIs and Data Sources

Use this list as a starting point with your team to discuss potential KPIs and data sources around medical impact for your organization.

Key Performance Indicator	Description/Requirement	Data Source
INTERACTION ACTIVITIES		
"Target" versus wider population	Which share of the stakeholders are we interacting with/are within the target population	CRM/KOL Data
Proactive versus reactive	Which share of the interactions were proactive vs. triggered by the stakeholder	CRM
Number of interactions handed over from commercial	Number of cases in which reps get an information request from a customer and refer it to the MSL or the rep cannot answer the question and asks MSL to contact the customer	CRM
Number of interactions handed over from clinical	Number of cases in which clinical colleagues (CRAs, study monitors, etc.) hand over stakeholder requests to medical	CRM/CTMS
Total volume of interactions	Need a definition to determine if email, phone, text, etc. is included or not	CRM
Number of first-time visits	"Customer" seen for the first time (to drive behavior/incentivize extra efforts)	CRM
Number of follow-up visits	The opposite of first-time visits	CRM
Number of individual "customers" with interactions	To get a perspective on the breadth of coverage	CRM

Interactions per day/week/month	Establish clear definition of what counts as an “interaction”	CRM
Number of group meetings	Establish definition of what is a “group meeting”	CRM
Number of participants in group meetings	Establish definition of what is a “group meeting”	CRM
Number of ad boards conducted or supported	Establish definition of what is an “ad board”	CRM
Number of participants in ad boards	Establish definition of what is an “ad board”	CRM
Number of medical education events	Establish definition of what is a “medical education event”	CRM
Number of participants in medical education events	Establish definition of what is a “medical education event”	CRM

WEIGHTED INTERACTION METRICS

Frequency x importance	Interactions with more important/less aligned/difficult to get to “customers” count more than others	CRM/KOL Data
Frequency x channel importance	For example, face-to-face has a higher weight vs. video vs. call vs. email	CRM
First time with higher weight	For example, first-time visit with factor 5, second with 4, third with 3, etc.	CRM

CHANNEL METRICS

Relative channel usage in %	Transparency on utilization of channels	CRM
Absolute channel use	Transparency on utilization of channels	CRM

RESOURCE ALLOCATION

Time in the field in %	Transparency on resource use	CRM + HR tools
Time in the field absolute	Transparency on resource use	CRM + HR tools

COVERAGE

Number of "targets" covered	Transparency on engagement reach	CRM/KOL Data
Number of healthcare organizations covered	Transparency on engagement reach	CRM
Number of KOL relationships maintained vs. "lost"	Flagging if engagement behavior is changing	CRM/KOL Data

MEDICAL INSIGHTS OPERATIONS

Number of insights gathered	Transparency on the operational aspect of insights capture	CRM or insights management tool
Number of "actionable" insights vs. all gathered	View on the "actionability aspect" of insights gathered	CRM or insights management tool
Time until insight is documented	Transparency in documentation diligence	CRM or insights management tool

MEDICAL INFORMATION OPERATIONS

Number of scientific queries responded to	Transparency on operational aspects of medical information fulfillment	CRM and/or medical information management tool
Number of completed/resolved medical information queries vs. all inquiries	Transparency on operational aspects of medical information fulfillment	CRM and/or medical information management tool
Time to respond to med info requests	Transparency on operational aspects of medical information fulfillment	CRM and/or medical information management tool

MEDICAL EDUCATION METRICS

CME accreditations achieved	Covering quality aspects of medical information	CRM and/or other tool
Total number of event participants	Transparency on operational aspects of medical education activities	CRM and/or other tool
Participant feedback scores	Information on participant satisfaction	Manual capture

INTERNAL PROJECTS

Number of internal stakeholder projects	Transparency on resource use	Manual capture
Number of HTA/HEOR submissions supported	Transparency on resource use	Manual capture
Number of successful launch preparations completed	Transparency on resource use	Manual capture
Number of internal education programs delivered	Transparency on resource use	Manual capture

EXTERNAL PROJECTS

Number of scientific presentations delivered	Transparency on resource use	CRM or manual capture
Number of projects with "customers"	Transparency on resource use	CRM or manual capture
Number of congress events	Transparency on resource use	CRM or manual capture
Number of stand-alone scientific events	Transparency on resource use	CRM or manual capture
Number of participants in scientific company events	Transparency on resource use	CRM or manual capture
Participants' feedback scores	Information on participant satisfaction	CRM or manual capture

PLANNING METRICS

Executional targets of medical plan met	Transparency in operational diligence	Manual capture
Tactics delivered as planned	Transparency in operational diligence	Manual capture
Budget accuracy	Transparency in operational diligence	Manual capture

CONTENT OPERATIONS METRICS

Content utilization in general	Transparency on content utilization	CRM and/or content management tool
Slide-level utilization patterns	Transparency on content utilization	CRM and/or content management tool

MLR METRICS

Number of materials approved	Transparency on resource use	Content management tool
Average time from submission to approval	Transparency on operational aspects of the MLR process	Content management tool

OPERATIONAL METRICS: CUSTOMER LEVEL

Interaction recall	Externally sourced data points on operational aspects	Manual capture
After visit survey (with a focus on operations)	Externally sourced data points on operational aspects	Manual capture
Message recall	External perspective on message delivery	Manual capture
Level of KOL awareness	External perspective on message delivery	Manual capture
Customer NPS	Information on stakeholder satisfaction	Manual capture

R&D SUPPORT METRICS

Number of clinical trials supported	Transparency on resource use	CRM and/or manual capture
Number of site interactions	Transparency on resource use	CRM and/or manual capture
Number of interactions with investigators	Transparency on resource use	CRM and/or manual capture
Patient recruitment targets met	Transparency on operational efficiency	CRM and/or manual capture

Milestones met	Transparency on operational efficiency	CRM and/or manual capture
Timelines met	Transparency on operational efficiency	CRM and/or manual capture
Volume of input into clinical development plans	Transparency on resource use	CRM and/or manual capture
Volume of meeting participation	Transparency on resource use	CRM and/or manual capture

MEDICAL EVIDENCE GENERATION METRICS

Number of Investigator Initiated Studies (IIS) supported	Transparency on resource use	CTMS and/or manual capture
Medical affairs studies supported	Transparency on resource use	CTMS and/or manual capture
Volume of input into integrated evidence-generation plans	Transparency on resource use	CTMS and/or manual capture

PATIENT-CENTRIC METRICS

Number of interactions with patient representatives	Transparency on resource use	CRM and/or manual capture
Number of patient journeys defined	Transparency on resource use	CRM and/or manual capture

COMMUNICATION METRICS

Number of papers/posters/publications	Transparency on resource use	Content management tool and/or manual capture
Number of social posts	Transparency on resource use	Manual capture
Number of likes, re-posts, etc.	Transparency on operational efficiency	Manual capture

DOCUMENTATION METRICS

Time to document in CRM	Transparency on resource use	CRM
Completeness of documentation	Transparency on resource use	CRM
Quality of documentation	Transparency on resource use	Manual capture

CROSS-FUNCTIONAL COLLABORATION

Account plan existence/completeness/participation of medical	Transparency on operational diligence	Manual capture
Internal surveys on perceived support/collaboration	To measure the delivery of expectations/objectives	Manual capture
Number of commercial-medical handovers	Co-visits, reps forwarding customer requests for information to medical	Manual capture

RESOURCES DEPLOYED

Field medical headcount	Transparency on resource use	HR tools and/or manual capture
Time-corrected headcount (part-time, short-term leave, parental leave, etc.)	Transparency on resource use	HR tools and/or manual capture
Resource available for therapeutic area/product	Transparency on resource use	HR tools and/or manual capture
Hours/days time in the field	Transparency on resource use	HR tools and/or manual capture

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