# NONINTERVENTIONAL (NI) STUDY PROTOCOL

#### Study information

Title	Real-world treatment patterns and outcomes of patients with		
THE	advanced renal cell carcinoma (aRCC) treated with first-line		
	(1L) axitinib + pembrolizumab therapy		
Protocol number	A4061101		
Protocol version	V2.0		
identifier			
Date	10 June 2024		
EU Post			
Authorization Study	EUPAS100000104		
(PAS) register			
number			
Active substance	Axitinib and pembrolizumab		
	PF-01367866		
Medicinal product	Axitinib (Inlyta)		
Research question	<b>Research question:</b> What are the real-world treatment patterns.		
and objectives	outcomes, and characteristics of patients with aRCC who are		
·····	treated with 1L axitinib + pembrolizumab therapy?		
	Primary objectives		
	1. To describe patient-level treatment patterns and		
	sequences of therapy after initiation of 1L axitinib +		
	pembrolizumab therapy among patients with aRCC,		
	including:		
	a. Rationale for treatment initiation and discontinuation		
	b. Dose modifications		
	c. Duration of treatment		
	d. Time to next treatment		
	e. Frequency of therapy modifications/discontinuations		
	Secondary objectives		
	1. To describe the demographic and clinical characteristics		
	among patients with aRCC treated with 1L axitinib +		
	pembrolizumab therapy		
	2. To assess physicians' perceptions of treatment		
	management approaches for aRCC via administration of		
	a provider survey, including:		
	a. Factors influencing the selection of initial therapy for		
	aRCC		
	b. Treatment management approaches		

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	<ul> <li>Exploratory objectives</li> <li>1. To describe real-world clinical outcomes among study patients with aRCC treated with 1L axitinib + pembrolizumab therapy, including: <ul> <li>a. Real-world overall response rate</li> <li>b. Real-world progression-free survival</li> <li>c. Real-world overall survival</li> </ul> </li> </ul>
Country of Study	United States of America
Author	

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# 2. LIST OF ABBREVIATIONS

Abbreviation	Definition	
1L, 2L, 5L	first-line, second-line, fifth-line (therapy)	
AE	adverse event	
AEM	adverse event monitoring	
AIDS	acquired immunodeficiency syndrome	
AJCC	American Joint Committee on Cancer	
aRCC	advanced renal cell carcinoma	
axi + pembro	axitinib and pembrolizumab	
BMI	body mass index	
CBC	complete blood count	
CCI	Charlson Comorbidity Index	
CI	confidence interval	
CKD	chronic kidney disease	
COPD	chronic obstructive pulmonary disease	
CR	complete response	
CRF	case report form	
CSA	clinical study agreement	
CTCAE	Common Terminology Criteria for Adverse Events	
DCT	data collection tool	
DOD	Department of Defense	
DOR	duration of response	
DOT	duration of therapy	
EC	Ethics committee	
eCRF	electronic case report form	
EHR	electronic health record	
EMR	electronic medical record	
ER	emergency room	
FDA	United States Food and Drug Administration	
GPO	group purchasing organization	
GPP	Good Pharmacoepidemiology Practice	
НСР	healthcare professional	
HIPAA	Health Insurance Portability and Accountability Act	
HIV	human immunodeficiency virus	
I-O	immunotherapy	
IMDC	International Metastatic Renal-Cell Carcinoma	
	Database Consortium	
IQR	interquartile range	
IRB	institutional review board	
ISPE	International Society for Pharmacoepidemiology	
KM	Kaplan-Meier	
KPS	Karnofsky performance status	

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Abbreviation	Definition	
LOT	line of therapy	
NCI	National Cancer Institute	
NIS	non-interventional study	
OPEN	Oncology Provider Extended Network	
ORR	overall response rate	
OS	overall survival	
PASS	Post-Authorization Safety Study	
PD	progressive disease	
PD-1	programmed cell death – 1 protein	
PFS	progression-free survival	
PH	proportional hazards	
PHI	protected health information	
PR	partial response	
PS	performance status	
QA	quality assessment	
QC	quality control	
RCC	renal cell carcinoma	
RW	real-world	
RWD	real-world data	
rwDOR	real-world duration of response	
rwDOT	real-world duration of therapy	
rwORR	real-world overall response rate	
rwOS	real-world overall survival	
rwPFS	real-world progression free survival	
rwTFI	real-world treatment-free interval	
rwTTNT	real-world time to next treatment	
rwTTR	real-world time to treatment response	
SAP	statistical analysis plan	
SD	standard deviation	
SOC	standard of care	
STROBE	Strengthening the Reporting of Observational Studies	
	in Epidemiology	
TFI	treatment-free interval	
TKI	tyrosine kinase inhibitor	
TT	targeted therapy	
TTR	time to initial response	
VEGFR	vascular endothelial growth factor receptor	
UAT	user acceptance testing	
US	United States	
YRR	Your Reporting Responsibility	

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#### **3. RESPONSIBLE PARTIES**

#### Principal Investigator(s) of the Protocol



#### **Research Team Members**

Name, Degree(s)	Job Title	Affiliation	Address

#### 4. ABSTRACT

#### Title

Real-world treatment patterns and outcomes of patients with advanced renal cell carcinoma (aRCC) treated with first-line (1L) axitinib + pembrolizumab therapy

Version 2

Lead author:

#### **Rationale and background**

Combination therapy using axitinib plus pembrolizumab (axi+pembro) is a standard of care in the first-line treatment of patients with advanced renal cell carcinoma (aRCC). Axitinib (Inlyta®), a Pfizer product, was first approved by the US Food and Drug Administration (FDA) in January 2012, and subsequent FDA approval of 1L axi+pembro for aRCC in 2019 was based on results of the KEYNOTE-426 phase 3 trial, which showed benefit in both overall survival and median progression-free survival. In an extended follow-up of the trial, potential treatment-related adverse events led to one-fifth (20%) of patients discontinuing axitinib treatment and nearly two-thirds (62%) requiring treatment interruption. A better understanding of treatment patterns, therapy management, and outcomes of patients with aRCC treated with 1L axi+pembro in the real-world setting may inform strategies to optimize treatment duration and potentially improve clinical outcomes.

#### **Research question and objectives**

Research Question: What are the real-world treatment patterns, outcomes, and characteristics of study patients with clear cell aRCC who are treated with 1L axitinib + pembrolizumab therapy?

Primary objectives:

- 1. To describe patient-level treatment patterns and sequences of therapy after initiation of 1L axitinib + pembrolizumab therapy among patients with clear cell aRCC, including:
  - a. Rationale for treatment initiation and discontinuation
  - b. Dose modifications
  - c. Duration of treatment
  - d. Time to next treatment
  - e. Frequency of therapy modifications/discontinuations

Secondary objectives:

1. To describe the demographic and clinical characteristics among study patients with clear cell aRCC treated with 1L axitinib + pembrolizumab therapy

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- 2. To assess physicians' perceptions of treatment management approaches for aRCC via administration of a provider survey, including:
  - a. Factors influencing the selection of initial therapy for aRCC
  - b. Treatment management approaches

Exploratory objectives:

- 1. To describe real-world clinical outcomes among study patients with clear cell aRCC treated with 1L axitinib + pembrolizumab therapy, including:
  - a. Real-world overall response rate
  - b. Real-world progression-free survival
  - c. Real-world overall survival

#### Study design

This is a cohort study that includes a cross-sectional physician survey and a retrospective, multi-site, oncology community-based, medical chart abstraction of patients with clear cell aRCC treated with 1L axitinib + pembrolizumab therapy. Cardinal Health will recruit physicians to participate in the study through a proprietary network of community oncologists. Primary data will be collected from participating physicians, who will be asked to complete a one-time survey on treatment management approaches for aRCC. Participating physicians will then be asked to complete electronic case report (eCRF) forms for patients meeting the study selection criteria based on their existing medical records. All patient-level data are secondary data that will be collected retrospectively from existing medical records originally collected as part of routine care by participating providers.

#### Population

Providers from Cardinal Health Oncology Provider Extended Network (OPEN) in the United States (US) will be eligible to participate in the study if they have treated at least 5 aRCC patients in the past year, are able to participate in research monitored/approved by a centralized independent institutional review board (IRB), and agree to participate in data quality assurance (QA)/quality control (QC) procedures. For the retrospective chart abstraction, patients meeting the eligibility criteria will be identified by oncologists in OPEN. These patients will be adults diagnosed with aRCC who initiated axitinib + pembrolizumab as 1L treatment and have at least six months of follow-up data after initiation of index therapy.

#### Variables

Exposure: Receipt of axitinib + pembrolizumab as 1L therapy

<u>Primary outcomes</u>: Treatment patterns (duration of treatment, rationale for treatment discontinuation, treatments received beyond 1L axi+pembro); treatment management (dose holds, dose modifications, etc.)

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CT24-WI-GL02-RF017.0 Non-Interventional Study Protocol Template For Primary Data Collection Study 01-May-2024 Page 9 of 55 <u>Secondary outcomes</u>: Demographic and clinical characteristics; physicians' perceptions of treatment management approaches for aRCC

Exploratory outcomes: Real-world overall response rate, real-world progression-free survival, real-world overall survival

<u>Key covariates:</u> Physician characteristics (practice location, practice size/setting, years in practice, medical specialty), age at diagnosis, International Metastatic RCC Database Consortium (IMDC) risk score, Eastern Cooperative Oncology Group Performance Status

#### Data sources

Primary data on physicians' treatment management approaches will be collected via a onetime physician survey. Retrospective patient data will be abstracted and entered into an electronic case report form by patients' treating physicians or another physician in that patient's treating practice within the oncology network. The source documents are the patient chart/medical record data housed within the electronic health records (EHRs) and accessed by the participating providers.

# Study size

This study aims to collect information from at least 30 providers and data abstracted from the medical charts of N=300 total patients with clear cell aRCC who received 1L axitinib + pembrolizumab therapy.

# Data analysis

This is a descriptive analysis of physician survey data a patient-level data, and no formal hypotheses are specified a priori. Counts and frequencies will be used to describe dichotomous and categorical variables and measures of central tendency (mean, median) and spread (minimum, maximum, standard deviation [SD], interquartile range [IQR], as appropriate) for continuous variables. The Kaplan-Meier method will be used for time-to-event estimates, accounting for right-censoring. All statistical analyses will be conducted using Statistical Analysis Software (SAS v. 9.4).

#### Milestones

Milestone	Planned date
Completion of feasibility assessment	19 October 2022
Start of data collection	30 July 2024
End of data collection	26 August 2024
Registration in the HMA-EMA Catalogues of RWD studies register	18 July 2024
Final study report	31 January 2025

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#### **5. AMENDMENTS AND UPDATES**

Version Identifier	Date	Amendment Type (substantial or administrative)	Protocol Section(s) Changed	Summary of Amendment(s)	Reason
2.0	10 June 2024	Substantial	Section 9.1 Study Design Section 9.7 Data Analysis	Protocol revised to indicate that study is one-way blinded. The Sponsor (Pfizer) will be blinded to the identity of participating physicians but physicians will not be blinded to the identity of the Sponsor.	Study team decision to alter study design.
2.0	10 June 2024	Administrative	Abstract Section 6. Milestones	Protocol milestones updated to reflect study delays.	Changes to study design have resulted in study delays.

#### 6. MILESTONES

Milestone	Planned Date
Completion of feasibility assessment	19 October 2022
Start of data collection	30 July 2024
End of data collection	26 August 2024
Completion of data QC/validation	9 September 2024
Completion of data analysis	19 November 2024
Registration in the HMA-EMA Catalogues of RWD studies register	18 July 2024
Final study report	31 January 2025

#### 7. RATIONALE AND BACKGROUND

In the United States (US), an estimated 81,800 people are diagnosed with and 14,890 die from kidney cancer each year, the vast majority of which are renal cell carcinoma (RCC) (Siegel, Miller, Wagle, & Jemal, 2023). RCC, which originates in the renal cortex, is more common in males than females and is most frequently diagnosed between age 60 to 70 years (Bahadoram et al., 2022). While mortality is high, overall survival for renal cancer has improved in recent years with 5-year survival rates at 93% for localized disease, 74% for regional disease, and 17% for distant disease (Surveillance Research Program, 2023). It is estimated that up to 30% of RCC cases are metastatic at time of diagnosis and among those with early-stage RCC, 20 to 50% will progress to metastatic stage IV (Padala et al., 2020).

Historically negligible response rates have been reported for the treatment of advanced or metastatic RCC (aRCC) with chemotherapy or hormone therapy. The treatment landscape for aRCC has shifted due to recent advancements in targeted therapies (TTs), including immunotherapies (I-Os) and tyrosine kinase inhibitors (TKIs). Most aRCCs are highly vascularized and overexpress multiple growth factors, which led to the development of the TKI targeted agents against vascular endothelial growth factor receptor (VEGFR). For more than a decade beginning with sunitinib (2006), pazopanib (2009), and then axitinib (2011), single agent TKIs were the standard of care (SOC) treatment approach for aRCC. In 2018, the FDA approved the combination of nivolumab and ipilimumab, both I-O drugs, for treatment of aRCC based on results from the CheckMate-214 trial, which demonstrated significant improvements in overall survival (OS) and objective response rate (ORR) compared to sunitinib alone (Motzer et al., 2018). Nevertheless, many patients continued to have progressive disease, therefore further studies explored the efficacy of VEGFR inhibitors (e.g., axitinib) combined with immune checkpoint inhibitors.

In April 2019, the programmed cell death 1 protein (PD-1) checkpoint inhibitor pembrolizumab, a type of I-O therapy, in combination with axitinib was the first TKI+I-O combination approved by the FDA for first-line (1L) treatment of aRCC patients. The

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CT24-WI-GL02-RF017.0 Non-Interventional Study Protocol Template For Primary Data Collection Study 01-May-2024 Page 12 of 55 approval was based on findings from the phase III KEYNOTE-426 trial that found a 23.6% higher ORR and a significantly longer median progression-free survival (PFS; 15.1 months vs. 11.1 months) in the axitinib + pembrolizumab combination arm compared with the sunitinib monotherapy arm (Rini et al., 2019). Axitinib + pembrolizumab is approved as 1L treatment regardless of patient risk score.

While axitinib + pembrolizumab combination therapy has been shown to improve clinical outcomes for aRCC compared to sunitinib, several studies have also identified treatment-related adverse events. In the extended follow-up to the Phase 3 KEYNOTE 426 trial, which demonstrated sustained clinical benefit for axitinib + pembrolizumab compared to single agent sunitinib in both OS and PFS, treatment-related adverse events led to approximately one fifth of the patients discontinuing axitinib + pembrolizumab and almost two-thirds having treatment interruptions (Powles et al., 2020). More recently, a real-world (RW) electronic health record (EHR) based study found that among patients with aRCC who initiated axitinib + pembrolizumab as 1L treatment, approximately 83% of the study population experienced therapy management (e.g., dose hold, dose change or discontinuation) with toxicity of therapy as the most cited reason for each type of therapy management (Zakharia et al., 2022).

To date, few RW studies of treatment patterns and outcomes for patients with aRCC treated with 1L axitinib + pembrolizumab have been published. Limited information is also available on the clinical characteristics (e.g., tumor features) in a RW setting, including on clear cell RCC, the most common RCC subtype accounting for approximately 75% of RCC diagnoses (Padala et al., 2020). It is expected that this study, while similar to the study by Zakharia et al. (2022), will be able to contribute to the overall understanding of the RW treatment and safety landscape for patients with aRCC on 1L axitinib + pembrolizumab. This study aims to describe physician treatment management of potential adverse events, and detailed clinical characteristics not previously examined. These RW data and RW evidence can be used to inform treatment strategies for 1L axitinib + pembrolizumab and, ultimately, improve outcomes among patients with aRCC.

This noninterventional study is designated as a Post-Authorization Safety Study (PASS) and is conducted voluntarily by Pfizer.

# 8. RESEARCH QUESTION AND OBJECTIVES

# 8.1. Question

What are the real-world treatment patterns, outcomes, and characteristics of patients with clear cell aRCC who are treated with 1L axitinib + pembrolizumab therapy?

#### 8.2. Study objectives

This study seeks to meet the following objectives among patients with confirmed clear cell advanced or metastatic RCC who were treated with 1L axitinib + pembrolizumab therapy:

#### 8.2.1. Primary objectives

- 1. To describe patient-level treatment patterns and sequences of therapy after initiation of 1L axitinib + pembrolizumab therapy among patients with clear cell aRCC, including:
  - a. Rationale for treatment initiation and discontinuation
  - b. Dose modifications
  - c. Duration of treatment
  - d. Time to next treatment
  - e. Frequency of therapy modifications/discontinuations

#### 8.2.2. Secondary objectives

- 1. To describe the demographic and clinical characteristics among patients with clear cell aRCC 1L axitinib + pembrolizumab therapy
- 2. To assess physicians' perceptions of treatment management approaches for aRCC via administration of a provider survey, including:
  - a. Factors influencing the selection of axitinib + pembrolizumab as 1L therapy for aRCC
  - b. Treatment management approaches

#### 8.2.3. Exploratory objectives

- 1. To describe real-world clinical outcomes among patients with clear cell aRCC treated with 1L axitinib + pembrolizumab therapy, including:
  - a. Real-world overall response rate
  - b. Real-world progression-free survival
  - c. Real-world overall survival

#### 9. RESEARCH METHODS

#### 9.1. Study Design

This is a non-interventional, observational cohort study based on a cross-sectional physician survey as well as a retrospective medical chart review. Cardinal Health will recruit oncologists within the Cardinal Health Oncology Provider Extended Network (OPEN) in the United States (US) to participate in the study. A study invitation will be emailed to potential participants within OPEN that includes physician and patient eligibility criteria for the study. A link will also be included in the study invitation that physicians will use to access and

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#### Primary Data Collection - Physician Survey

Primary data will be collected from participating physicians, who will first be asked to complete a one-time survey on treatment management approaches for aRCC. Providers will be asked to indicate factors influencing aRCC treatment selection and to describe relevant additional data-related needs. Providers who report AEs as the rationale for dose modifications or treatment discontinuations will be prompted to answer follow-up questions on details regarding AE management. The survey will be completed once per provider prior to the patient-level, retrospective, chart-based data collection.

#### Secondary Data Collection - Patient-Level Chart Abstraction

Participating physicians will then be asked to identify patients that meet the inclusion criteria of this study per documented information in their electronic medical records (EMRs), including notes, reports, scans, and other chart documentation. After the providers respond to questions regarding the eligibility of each patient chart in an electronic case report form (eCRF), de-identified, patient-level data for this study will then be abstracted from eligible patient EMRs into the eCRF. All patient-level data are secondary data that will be collected retrospectively from existing medical records originally collected as part of routine care by participating providers.

The eCRF will be used to capture de-identified information about demographic and baseline clinical characteristics, therapy modifications/discontinuations, treatment patterns, and clinical outcomes of patients with clear cell aRCC who received 1L axitinib + pembrolizumab therapy. Data points to be captured include baseline clinical characteristics (eg, diagnosis dates, stage, risk scores, performance status, and comorbidities), treatment patterns (e.g., regimens received, date(s) of treatment initiation/discontinuation, reason for treatment initiation/discontinuation, dose modifications), including therapy modifications (e.g., cause, date of onset, management, and severity if applicable). Additional outcomerelated variables to be collected include tumor response, progression, and date of death (if applicable). Exploratory clinical outcomes of interest that will be calculated include real-world overall response rate, progression-free survival, and overall survival. The study index date is the date of 1L axitinib + pembrolizumab therapy initiation (i.e., date patient was started actively receiving both drugs). The index date must occur between 22 April 2019 and 6 months before the start of data collection. These data will be abstracted from the patients' EMRs into the eCRF relation to the time points as shown in Figure 1.

Providers will complete the eCRF one time per patient, and the total follow-up time per patient will vary based on the date that the provider completes the eCRF. However, all

#### PFIZER CONFIDENTIAL

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All assessments described in this protocol are collected as part of normal clinical practice or standard practice guidelines for the patient population and healthcare provider specialty in the countries where this noninterventional study is being conducted.



#### Figure 1. Study period

\* Estimated dates based on projected completion of project milestones prior to eCRF release to physicians.

Notes: Follow-up may be less than 6 months if the patient died within 6 months of initiating 1L axitinib + pembrolizumab.

#### 9.2. Setting

Patients meeting the eligibility criteria will be identified by oncologists from the Cardinal Health Oncology Provider Extended Network (OPEN) in the US who are the patients' treating providers or work in the patient's treating practice. OPEN is a community of over 7,000 group purchasing organization (GPO) agnostic oncologists, hematologists, and urologists from across the US, with varying levels of time in practice, from practices both within and outside of group purchasing organizations. The database represents approximately 39% of physicians providing oncology subspecialty patient care (based on an estimated 18,000 providers). Providers are contracted with directly after attendance at Cardinal Health Oncology Summits (internal research conducted with 70-100 providers 7-10 times per year) or if they or their practice use Cardinal Health point of care claims remittance management

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CT24-WI-GL02-RF017.0 Non-Interventional Study Protocol Template For Primary Data Collection Study 01-May-2024 Page 16 of 55 software. As such, physician participation in the proposed research is under an agreement between the physician and Cardinal Health. Providers practice predominantly in community practices (>75%), ranging in size from solo practitioners to physicians practicing in hospital systems; all are able to participate in research monitored by a central Institutional Review Board (IRB). In the last 5 years more than 1,500 unique providers in OPEN have completed over 30,000 individual eCRFs. Because OPEN is a provider-level (as opposed to site-based) network, Cardinal Health can obtain large, representative samples of patients and collect detailed clinical data from the clinicians treating the patients of interest. No protected health information (PHI) beyond dates of diagnosis, treatments, and outcomes will be collected.

After IRB approval of the research protocol, the physician survey and eCRF will be pretested with 4 providers. Data collected as part of the pre-test will not be used in the final analytic dataset. After testing and revisions (if necessary), providers from OPEN will be contacted and asked to participate in the research. Providers who participated in the prior related feasibility survey and who reported having treated potentially eligible patients will be invited to participate in this study. These providers volunteered to participate in the feasibility survey after receiving invitations to participate that were sent out to a subset (approximately 800) of Cardinal Health's OPEN providers. Additional physicians from the OPEN may also be recruited to achieve the targeted patient numbers. Recruited providers who volunteer to participate in this study will confirm their own eligibility for the provider survey as well as identify patients meeting the study selection criteria through a series of screener questions. Additionally, these physicians will provide an estimate of their total eligible patient population.

Data collection will be conducted over the course of 4 weeks.

#### Primary Data Collection

For primary data collection on treatment management approaches, participating physicians will be asked to complete a one-time survey on factors influencing aRCC treatment selection, their approach to therapy management, and relevant additional data-related needs. The survey will be completed once per provider as part of the patient-level, retrospective, chart-based data collection. A waiver of obtaining physician consent will be sought for the study given the minimal risk imposed by the data elements to be collected.

#### Secondary Data Collection

For secondary data collection, providers will submit a maximum of 10 eCRFs each (the maximum number of eCRFs per provider may be increased, if necessary, to achieve target patient numbers following pre-approval from Pfizer). Physicians will be asked to identify all eligible patients, report the total number of eligible patients, and chronologically select consecutive eligible patients, starting with the earliest eligible. The source documents are the patient chart/medical record data housed within the EHRs and accessed by the participating providers. Providers will be compensated through honoraria payment for each completed and validated eCRF. A waiver of obtaining patient consent will be sought for the study.

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CT24-WI-GL02-RF017.0 Non-Interventional Study Protocol Template For Primary Data Collection Study 01-May-2024 Page 17 of 55 The study population includes adults diagnosed with aRCC who received combination 1L axitinib + pembrolizumab therapy with at least 6 months of follow up data available after initiation of index therapy. Patients who died during the 6-month follow-up period would remain eligible for inclusion.

#### 9.2.1. Patient --WI-Inclusion Criteria - Secondary Data Collection

Patients must meet all the following inclusion criteria to be eligible for inclusion in the patient-level chart abstraction study:

- 1. Patients with a confirmed diagnosis of clear cell aRCC (stage IV)
- 2. Patients who initiated 1L axitinib + pembrolizumab therapy for clear cell aRCC on or after 22 April 2019 and at least 6 months prior to initiation of data collection
- 3. Patients ≥18 years of age at time of initiation of 1L axitinib + pembrolizumab therapy for clear cell aRCC
- A minimum of 6 months follow-up since initiation with 1L axitinib + pembrolizumab therapy for clear cell aRCC\*
   \*Patients who died during this interval would still be eligible.

#### 9.2.2. Patient Exclusion Criteria - Secondary Data Collection

Patients meeting any of the following criteria will not be included in the patient-level chart abstraction study:

- 1. Patients who received axitinib or pembrolizumab for aRCC as part of a clinical trial
- 2. Patients who had any additional active malignancy in the 3 years prior to initiation of 1L therapy for aRCC
- Patients who received systemic therapy prior to 1L axitinib + pembrolizumab therapy, including immunotherapy or TKI therapy\*
   \*Note: Patients who received systemic therapy in an adjuvant setting are not eligible for this study.

# **9.2.3.** Provider qualifications for participation in the physician survey study and abstraction of patient-level chart data are:

- Treated a minimum of five aRCC patients in the past year
- Able to participate in research monitored/approved by a centralized independent institutional review board (IRB)
- Agreement to participate in data quality assurance (QA)/quality control (QC) procedures

# 9.3. Variables

#### Primary Data Collection – Physician Survey

The following de-identified provider-level variables/data elements will be collected from physician surveys. Variable names/topics and roles will not show up as part of provider surveys. Table 1 represents data elements of interest that may be captured as part of the final data collection tool (DCT). Table 2 represents additional data elements that will be captured if providers select AEs as the rationale for dose modification or treatment discontinuation. Survey questions, response options, and display logic will be finalized during the development of the eCRF.

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Variable	Operational definition	Role	Data
			Source
Physician practice type/size	<ul> <li>Solo practitioner</li> <li>Small private community practice (2-5 physicians)</li> <li>Small private community practice (2-5 physicians) owned by a hospital</li> <li>Medium-sized private community practice (6-10 physicians)</li> <li>Medium-sized private community practice (6-10 physicians) owned by a hospital</li> <li>Large private community practice (&gt;10 physicians)</li> <li>Large private community practice (&gt;10 physicians)</li> <li>Community practice owned by a hospital</li> <li>Community practice owned by an academic center</li> <li>Affiliated teaching hospital</li> <li>VA/military hospital/Department of</li> </ul>	Baseline characteristic	Physician reported
	- Other		
US region of practice	<ul> <li>Northeast (CT, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT)</li> <li>Midwest (IA, IL, IN, KS, MI, MN, MO, ND, NE, OH, SD, WI)</li> <li>South (AL, AR, DC, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, VA, WV)</li> <li>West (AK, AZ, CA, CO, HI, ID, MT, NM, NV, OR, UT, WA, WY)</li> </ul>	Baseline characteristic	Physician reported

# Table 1. Physician survey variables – characteristics and treatment management approaches for secondary objective

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Table 1.	Physician survey variables – characteristics and treatment management
	approaches for secondary objective

Variable	<b>Operational definition</b>	Role	Data
			Source
Setting of practice	- Urban	Baseline	Physician
	- Suburban	characteristic	reported
	- Rural		
Years in practice	Open-ended numeric; 1-99	Baseline	Physician
		characteristic	reported
Medical specialty	- Medical Oncology	Baseline	Physician
	- Urology	characteristic	reported
	- Other		
Estimated patient caseload	Open-ended numeric; 1-250	Baseline	Physician
with aRCC and those treated		characteristic	reported
with 1L axitinib +			
pembrolizumab therapy in the			
past year		-	
Treatment selection	Please rank the top 3 factors	Outcome	Physician
	that influence your choice of		reported
	using axitinib $+$		
	pembrolizumab for 1L		
	treatment of aRCC:		
	- Overall survival		
	- Progression free survival		
	- Complete response		
	- Overall response rate		
	- Safety profile		
	- Quality of me Number of		
	- Number of		
	Trial follow up time		
	- That follow-up time		
	- Practice reimbursement		
	- Patient out-of-pocket cost		
	- Patient preference		
	- Patient compliance		
	i adont compnance		
Dose modification or	Please select factor(s), other	Outcome	Physician
treatment discontinuation	than completion of scheduled		reported
·	treatment duration or death.		1
	that influence dose		
	modifications and/or treatment		
	discontinuations for axitinib +		
	pembrolizumab for 1L		

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Table 1.	Physician survey variables – characteristics and treatment management
	approaches for secondary objective

Variable	Operational definition	Role	Data Source
	<ul> <li>treatment of aRCC [multiple select]:</li> <li>Disease progression</li> <li>Patient request to stop treatment</li> <li>Adverse events</li> <li>Financial factors</li> <li>Other</li> </ul>		

Table 2.	Follow-up questions for providers who list AEs as rationale for dose
	modifications or treatment discontinuation (Physician Survey)

Variable	<b>Operational Definition</b>	Role	Data
			Source
AE management tools	<ul> <li>What tools are available at your practice for AE management?</li> <li>Published guidelines (e.g., IO Essentials Care Step Pathway; ASCO Guidelines for Management of Immune-Related Adverse Events in Patients Treated with Immune Checkpoint Inhibitor Therapy)</li> <li>Laboratory testing (e.g., liver enzyme tests, CBC, renal function [e.g., creatinine], stool culture)</li> <li>Multispecialty consultation (e.g., consult with nephrology)</li> </ul>	Outcome	Source Physician reported
Most concerning AFs	• Other [please specify] Based on the known safety profile	Outcome	Physician
	of the regimen, what are the top 5	Guidonne	reported

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Variable	Operational Definition	Role	Data Source
AE Etiology	most concerning AEs you encounter during your practice? Diarrhea Fatigue/asthenia Hypertension Hepatotoxicity Hypothyroidism Decreased appetite Palmar-plantar erythrodysesthesia Nausea Stomatitis/mucosal inflammation Dysphonia Rash Cough Constipation What tool(s) do you use to		Physician
	<ul> <li>distinguish AE etiology for patients treated with 1L axitinib + pembrolizumab (e.g., AE is axitinib-related vs. immune- related)[multiple select]?</li> <li>Interruption of axitinib treatment</li> <li>Laboratory tests</li> <li>Resolution of AE with corticosteroids</li> <li>Other [please specify]</li> </ul>		reported
AE-related treatment changes by severity	For the following AEs (separately by grade), which treatment changes (if any) would you typically make? Grades: 1-2 or 3-4 AEs: • Diarrhea		Physician reported

# Table 2.Follow-up questions for providers who list AEs as rationale for dose<br/>modifications or treatment discontinuation (Physician Survey)

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Variable	<b>Operational Definition</b>	Role	Data
	<ul> <li>Fatigue/asthenia</li> <li>Hypertension</li> <li>Hepatotoxicity</li> <li>Hypothyroidism</li> <li>Decreased appetite</li> <li>Palmar-plantar erythrodysesthesia</li> <li>Nausea</li> <li>Stomatitis/mucosal inflammation</li> <li>Dysphonia</li> <li>Rash</li> <li>Cough</li> <li>Constipation</li> </ul> Treatment Change Options: <ul> <li>Continuation (no change)</li> <li>Dose reduction of axitinib</li> <li>Treatment interruption of axitinib</li> <li>Treatment interruption of bysphonia</li> <li>Treatment interruption of pembrolizumab</li> <li>Treatment interruption of both axitinib + pembrolizumab</li> <li>Discontinuation of both axitinib</li> <li>Discontinuation of both axitinib</li> </ul>		Source
Factors informing treatment change vs. discontinuation decisions	If a patient experiences an AE of moderate severity while being treated for aRCC with axitinib + pembrolizumab, what factor(s) are the most influential in your decision to modify 1L axitinib + pembrolizumab therapy (e.g., axitinib dose modification, treatment interruption versus		Physician reported

# Table 2.Follow-up questions for providers who list AEs as rationale for dose<br/>modifications or treatment discontinuation (Physician Survey)

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Variable	<b>Operational Definition</b>	Role	Data Source
	discontinue therapy) (multiple select)		
	<ol> <li>Patient performance status</li> <li>Patient comorbidities</li> <li>Patient compliance</li> <li>Patient preference</li> <li>Availability of suitable subsequent line of therapy (LOT)</li> </ol>		
	<ul><li>6. Type of AE</li><li>7. Probability the AE will fully resolve</li></ul>		
	<ul> <li>8. First-time AE vs. recurrent AE</li> <li>9. Disease response prior to AE</li> <li>10. Other [please specify]</li> </ul>		

# Table 2.Follow-up questions for providers who list AEs as rationale for dose<br/>modifications or treatment discontinuation (Physician Survey)

# Secondary Data Collection Variables – Chart Abstraction

The following de-identified patient-level variables/data elements will be collected from patient medical records via the eCRF by their treating providers or another physician in the patient's treating practice. Variable names/topics and roles will not show up as part of chart abstraction. Table 3-Table 7 represent data elements of interest that may be captured as part of the final DCT and Table 8 includes the definition of endpoints/outcomes calculated from the collected data. Survey questions, response options, and display logic will be finalized during the development of the eCRF. Note that the data elements included in Table 6 will only be captured if providers report AEs as the rationale for dose modification or treatment discontinuation.

 Table 3.
 Patient demographic characteristics for secondary objective

Variable	<b>Operational definition</b>	Role	<b>Data Source</b>
Year of birth	Patient's four-digit year of birth	Baseline	Patient
		characteristic	medical
			records
Sex	Patient's sex assigned at birth:	Baseline	Patient
	- Male	characteristic	medical
	- Female		records

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Variable	<b>Operational definition</b>	Role	Data Source
Ethnicity	Patient's ethnicity:	Baseline	Patient
	- Hispanic or Latino	characteristic	medical
	- Not Hispanic or Latino		records
	- Unknown		
Race	Patient's race, with option to	Baseline	Patient
	select multiple races:	characteristic	medical
	- American Indian or Alaska		records
	Native		
	- Asian		
	- Black or African-American		
	- Native Hawaiian or Other		
	Pacific Islander		
	- White		
	- Unknown		
Region	Patient's region of residence:	Baseline	Patient
	- Northeast (CT, DE, MA, MD,	characteristic	medical
	ME, NH, NJ, NY, PA, RI,		records
	VT)		
	- Midwest (IA, IL, IN, KS, MI,		
	MN, MO, ND, NE, OH, SD, WI)		
	- South (AL, AR, DC, FL, GA,		
	KY, LA, MS, NC, OK, SC,		
	TN, TX, VA, WV)		
	- West (AK, AZ, CA, CO, HI,		
	ID, MT, NM, NV, OR, UT,		
	WA, WY)		
Insurance	Patient's most recent primary	Baseline	Patient
	insurance:	characteristic	medical
	- Medicare		records
	- Medicaid		
	- Commercial		
	- Military		
	- Self-pay		
	- Unknown		
	- Other		
Height	Patient's height	Baseline	Patient
		characteristic	medical
			records
Weight	Patient's weight	Baseline	Patient
		characteristic	medical
			records

 Table 3.
 Patient demographic characteristics for secondary objective

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Variable	Operational definition	Role	Data Source
Body mass index (BMI)	Physician-reported BMI	Baseline characteristic	Patient medical records or calculated using height
			and weight

 Table 3.
 Patient demographic characteristics for secondary objective

#### Table 4. Patient clinical characteristics for secondary objective

Variable	Operational definition	Role	Data
Date of initial RCC diagnosis	Physician-reported date of patient's initial RCC diagnosis	Baseline characteristic	Patient medical records
Date of advanced or metastatic RCC diagnosis	Physician-reported date of patient's aRCC diagnosis	Baseline characteristic	Patient medical records
Stage at initial diagnosis	Patient's stage based on the AJCC TNM staging system at initial diagnosis of RCC • Stage I • Stage II • Stage III • Stage IV	Baseline characteristic	Patient medical records
Grade of tumor differentiation at or prior to initiation of 1L axitinib + pembrolizumab therapy	Grade 1- well differentiated Grade 2- moderately differentiated Grade 3- poor differentiated Grade 4- undifferentiated	Baseline characteristic	Patient medical records
Sarcomatoid Features	• Presence of sarcomatoid features (yes/no)	Baseline characteristic	Patient medical records
Number and location of metastatic sites	<ul> <li>Number and sites of metastases at initiation of 1L axitinib + pembrolizumab therapy for aRCC</li> <li>Number of metastases (open-ended numeric)</li> <li>All sites where metastatic disease was detected</li> </ul>	Baseline characteristic	Patient medical records

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Variable	Operational definition	Role	Data Source
	including: adrenal gland, bone, brain, local lymph node(s), regional/distal lymph node(s), skin/soft tissue, gastrointestinal system, genitourinary system, ovary, gynecologic system (excluding ovary), liver, lung, pleura/pericardial/peritoneal cavity, other (multiple		Source
International Metastatic RCC Database Consortium (IMDC) risk score	select) Patients' most recent IMDC risk score at or prior to initiation of 1L axitinib + pembrolizumab therapy: - Favorable risk - Intermediate risk - Poor risk - Unknown	Baseline characteristic	Patient medical records
Eastern Cooperative Oncology Group performance status (ECOG-PS)	<ul> <li>Patient's most recent known ECOG-PS at or in the 90 days prior to the initiation of 1L axitinib + pembrolizumab therapy and at or in the 90 days prior to initiation of 2L therapy as applicable:</li> <li>0 – Fully active; no restriction</li> <li>1 – Restricted in strenuous physical activities; fully ambulatory and able to carry out light work.</li> <li>2 – Capable of all self-care but unable to carry out any work activities; up and about &gt;50 percent of waking hours.</li> <li>3 – Capable of only limited self- care; confined to bed or chair &gt;50 percent of waking hours.</li> <li>4 – Completely disabled; could not carry out any self-care; totally confined to bed or chair.</li> <li>Unknown</li> </ul>	Baseline characteristic	Patient medical records

#### Table 4. Patient clinical characteristics for secondary objective

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Variable	Operational definition	Role	Data Source
Karnofsky	If FCOG-PS is unknown nationt's	Baseline	Patient
Performance Status	most recent known KPS at or in the	characteristic	medical
(KPS)	90 days prior to the initiation of 1L	enalueteristic	records
(111.5)	$ax_{itinib} + pembrolizumab therapy$		records
	and at or in the 90 days prior to the		
	initiation of 2L therapy as		
	applicable:		
	- 100 – Normal: no complaints: no		
	evidence of disease		
	- 90 – Able to carry on normal		
	activity: minor signs or		
	symptoms of disease		
	- 80 – Normal activity with effort:		
	some sign or symptoms of		
	disease		
	- 70 – Cares for self: unable to		
	carry on normal activity or do		
	active work		
	- 60 – Requires occasional		
	assistance		
	- 50 – Requires considerable		
	assistance		
	- 40 – Disabled, requires special		
	assistance		
	- 30 – Severely disabled		
	- 20 – Very sick, requires active		
	supportive treatment		
	- 10 – Moribund		
	- Unknown		
Comorbid conditions	Comorbidities/chronic conditions	Baseline	Patient
	present at the initiation of 1L	characteristic	medical
	axitinib + pembrolizumab therapy,		records
	with option to select multiple		
	conditions, including:		
	• Acquired		
	immunodeficiency		
	syndrome (AIDS)/Human		
	immunodeficiency virus		
	(HIV)		
	Hepatitis B		
	Hepatitis C		

 Table 4.
 Patient clinical characteristics for secondary objective

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Variable	Operational definition	Role	Data Source
NCI Comerbidity	<ul> <li>Cerebrovascular disease</li> <li>Chronic obstructive pulmonary disease (COPD)</li> <li>Coronary artery disease</li> <li>Congestive heart failure</li> <li>Dementia</li> <li>Diabetes with or without complications</li> <li>Liver disease – mild, moderate or severe</li> <li>Myocardial infarction – history</li> <li>Myocardial infarction - acute</li> <li>Paralysis – hemiplegia or paraplegia</li> <li>Peptic ulcer disease</li> <li>Peripheral vascular disease</li> <li>Renal disease (specify if chronic kidney disease [CKD] and if so, CKD stage)</li> <li>Rheumatologic disease</li> <li>Other [please specify]</li> <li>None of the above</li> </ul>	Pagaling	Dationt
Index score	National Cancer Institute (NCI) version of the Charlson Comorbidity Index (CCI) as calculated with patient's most recent available comorbidities data in the 90 days prior to or on the 1L index date	Baseline characteristic	Patient medical records
History of prior treatments (surgery, radiation, etc)	Type of treatment for RCC patient received prior to initiation of 1L axitinib + pembrolizumab therapy including surgery, radiation, none	Baseline characteristic	Patient medical records
Surgery for RCC received	Type(s) and date(s) of surgical resection patient received among those who received surgery for RCC prior to initiation of 1L	Baseline characteristic	Patient medical records

 Table 4.
 Patient clinical characteristics for secondary objective

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Variable	Operational definition	Role	Data Source
	axitinib + pembrolizumab therapy including radical nephrectomy, partial nephrectomy, cytoreductive surgery, or tumor ablation (radiofrequency/cryo)		

#### Table 4. Patient clinical characteristics for secondary objective

#### Table 5. Treatment pattern-related variables for primary objective

Variable	<b>Operational definition</b>	Role	Data Source
Treatment regimen or drugs received for aRCC after 1L axitinib + pembrolizumab therapy	Treatment(s) received following index (1L) treatment regimen (when applicable, up to 5 LOT) until data cut- off/end of follow-up. Subsequent treatments captured may include approved systemic treatments for aRCC.	Outcome	Patient medical records
Radiation therapy during 1L axitinib + pembrolizumab therapy	Receipt of radiation therapy during 1L axitinib + pembrolizumab therapy (yes/no/unknown). If yes, specify date of first dose and site(s) of radiation therapy (primary renal mass, bone, lung, liver, lymph nodes, brain, other metastatic site)	Outcome	Patient medical records
Date(s) of treatment initiation and discontinuation	Dates of treatment initiation and discontinuation (when applicable) for index 1L axitinib + pembrolizumab treatment*, and subsequent treatment(s) (up to 5 LOT, when applicable) received. The initiation date of axitinib + pembrolizumab therapy will be the index date for this study.	Outcome	Patient medical records

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Variable	<b>Operational definition</b>	Role	Data Source
	*Allow for differing dates of discontinuation for axitinib and pembrolizumab.		
Rationale for treatment discontinuation	<ul> <li>Reason(s) for discontinuing index/subsequent treatment (up to 5 LOT): <ul> <li>Scheduled duration of treatment complete</li> <li>Disease progression</li> <li>Patient request to stop treatment</li> <li>Financial factors</li> <li>AEs</li> <li>Death</li> <li>Other</li> </ul> </li> <li>*Allow for separate answers for axitinib and pembrolizumab</li> <li>Reason for not treating patient</li> </ul>	Outcome	Physician reported
NOT initiating a LOT post-1L axitinib + pembrolizumab	<ul> <li>with a subsequent LOT after discontinuation of 1L axitinib</li> <li>+ pembrolizumab therapy, including: <ul> <li>Death</li> <li>Patient choice</li> <li>Financial factors</li> <li>Poor drug availability</li> <li>Other [please specify]</li> </ul> </li> </ul>		
Rationale for treatment selection	Reason for selection of index and subsequent treatments including but not limited to disease progression, metastasis, other	Outcome	Physician reported
Initial dose/schedule of 1L therapy	Dosage and frequency/schedule of administration of 1L axitinib +	Outcome	Patient medical records

 Table 5.
 Treatment pattern-related variables for primary objective

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Variable	Operational definition	Role	Data Source
	pembrolizumab therapy at initiation.		
Dose modifications for axitinib during 1L therapy	Type and number of dose modifications for axitinib during 1L treatment including dose delayed/interrupted, dose increased, or dose reduced (multiple select; up to 5 dose modifications).	Outcome	Patient medical records
Dose interruptions for pembrolizumab during 1L therapy	Number of dose interruptions/delays for pembrolizumab during 1L treatment	Outcome	Patient medical records
Rationale for dose modification during 1L therapy	<ul> <li>Rationale for each dose modification for 1L axitinib and/or pembrolizumab (i.e., dose delayed/interrupted, dose increased, or dose reduced) including*: <ul> <li>Aggressive disease</li> <li>Cost benefit to patient</li> <li>Patient performance status</li> <li>Patient comorbidities</li> <li>To improve patient compliance</li> <li>To improve patient tolerance</li> <li>To follow recommended dosing guidelines</li> <li>To titrate before eventual discontinuation</li> <li>AE(s)</li> <li>To return to original dose after resolution of AE</li> <li>Other</li> </ul> </li> </ul>	Outcome	Physician reported

 Table 5.
 Treatment pattern-related variables for primary objective

Variable	<b>Operational definition</b>	Role	Data Source
	*Allow for separate answers		
	for axitinib and		
	pembrolizumab		
Date of dose	The date of each dose	Outcome	Patient medical
modification	modification of each type of		records
during 1L axitinib	modification (i.e., dose		
+ pembrolizumab	delayed/interrupted, dose		
therapy	increased, or dose reduced)*		
	*Allow for different dates for		
	axitinib and pembrolizumab		
Length of	For reported dose	Outcome	Patient medical
treatment	delays/interruptions, length of		records
interruption	treatment interruption (days)		
Dose/schedule at	Patients' dose and	Outcome	Patient medical
the end of 1L	frequency/schedule at the end		records
axitinib +	of 1L axitinib +		
pembrolizumab	pembrolizumab therapy, or		
therapy	most recent dose if patient is		
	still on therapy*		
	*Allow for separate answers		
	for axitinib and		
	pembrolizumab		
Date of death	Date following the index date	Outcome	Patient medical
	on which patient was		records
	determined to have deceased		
Cause of death	Patients cause of death	Outcome	Patient medical
	• Disease progression,		records
	toxicity related to		
	treatment, Covid-19		
	related, unknown/not		
	available, other		
Date of last	The most recent date the	Outcome	Patient medical
follow-up visit	abstracting physician has		records
	information on the patient,		
	which can include date of		
	clinician visit, lab or radiology		
	visit, phone call, and/or		
	electronic communication		

 Table 5.
 Treatment pattern-related variables for primary objective

Variable	Operational definition	Role	Data Source
Variable Disposition at data cut-off/end of follow-up	Patient disposition at data cut- off/end of follow-up, which can include alive and in remission not receiving active treatment for aRCC, alive with measurable disease but not receiving active treatment for aRCC, alive and receiving active treatment for aRCC, alive and receiving best supportive ages only	Outcome	Patient medical records
	deceased, unknown/lost to follow-up, other		

 Table 5.
 Treatment pattern-related variables for primary objective

Table 6.	Follow-up questions for providers who report AEs as rationale for dose
	modification or treatment discontinuation (Chart Abstraction)

Variable	Operational definition	Role	Data
			Source
AE type	For each reported AE-associated therapy modification or discontinuation previously reported, the associated AE that occurred during 1L index axitinib + pembrolizumab therapy, including: • Diarrhea • Hypertension • Fatigue • Decreased appetite • Nausea • Dysphonia • Palmar-plantar • Erythrodysesthesia (hand-foot) syndrome • Weight decreased • Vomiting • Asthenia • Constipation • Other	Outcome	Patient medical records

# Table 6.Follow-up questions for providers who report AEs as rationale for dose<br/>modification or treatment discontinuation (Chart Abstraction)

Variable	Operational definition	Role	Data
			Source
Date of AE	For each AE-associated therapy	Outcome	Patient
occurrence	modification or discontinuation		medical
	previously reported, the date the		records
	associated AE(s) occurred		
Highest grade of	The highest grade (Grade 1, 2, 3, 4, 5,	Outcome	Patient
AE	unknown) of each AE type reported to		medical
	have caused a therapy modification or		records
	discontinuation based on common		
	terminology criteria for adverse events		
	(CTCAE)		
Cause of AE	Cause of each AE reported to have	Outcome	Patient
	resulted in a therapy modification or		medical
	discontinuation during 1L axitinib +		records
	pembrolizumab therapy, if available		
	• All-cause, treatment-related*		
	* If treatment-related, follow-up question		
	on whether AE was axitinib-related,		
	pembrolizumab-related, or unknown.		
Treatment/care	Type of treatment/care received for each	Outcome	Patient
of each AE	AE occurrence reported to have resulted		medical
	in a therapy modification or		records
	discontinuation during 1L index axitinib		
	+ pembrolizumab therapy including:		
	- Hospitalization, Emergency Room		
	(ER) admission, steroid use,		
	supportive care only (e.g.,		
	management using anti-emetics,		
	anti-diarrheals, anti-hypertensives,		
	or topical treatments), no treatment,		
	other, unknown		
Type of	Among those who received supportive	Outcome	Patient
supportive care	care for AEs resulting in therapy		medical
received for AE	modifications or discontinuation during		records
	1L index axitinib + pembrolizumab		
	therapy, the type of care received		
	including anti-emetics, anti-diarrheals,		
	anti-hypertensives, corticosteroids, or		
	topical treatments		

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# Table 6.Follow-up questions for providers who report AEs as rationale for dose<br/>modification or treatment discontinuation (Chart Abstraction)

Variable	Operational definition	Role	Data Source
AE resolution	Whether the AE during 1L index axitinib + pembrolizumab therapy that resulted in a therapy modification resolved or improved (yes/no) and date of resolution/improvement	Outcome	Patient medical records
AEs with explicit attribution to a Pfizer product during study period	Fields to capture date and verbatim record of adverse events (AEs) with explicit attribution to any Pfizer drug that appear in the reviewed information (defined per the patient population and study period specified in the protocol). Explicit attribution is not inferred by a temporal relationship between drug administration and an AE but must be based on a definite statement of causality by a healthcare provider [by the healthcare professional (HCP) who ORIGINALLY wrote the note/piece of unstructured data in the medical chart of the patient's reviewed data] linking drug administration to the AE. These data are collected to comply with CT24-WI-GL02-RF02B Version 5.0.	Compliance with CT24- WI-GL02- RF02B Version 5.0 Safety Reporting Language Secondary Data Collection Study Includes Protocol Required Human Review of Unstructured	Patient medical records

#### Table 7. Clinical outcome-related variables for exploratory objective

Best response to 1L axitinib + pembrolizumab therapy	The best response to 1L axitinib + pembrolizumab therapy as charted in the medical (Complete response [CR], partial response [PR], stable disease, progressive disease, not assessed, unknown), and date of scan used to assess best response to treatment	Outcome
Progression during or	Did patient experience progression during or	Outcome
following 1L axitinib +	following 1L axitinib + pembrolizumab therapy	
pembrolizumab therapy	(yes/no), method of assessment (chart-based, scan-	
	based, other), and the date of first progression during	
	or following 1L axitinib + pembrolizumab therapy	

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<b>Clinical Outcome</b>	<b>Operational definition</b>			
Duration of follow-up	Time from date of initiation of 1L axitinib + pembrolizumab therapy to date of last follow-up (calculated arithmetically)			
Time from aRCC diagnosis to initiation of 1L axitinib + pembrolizumab therapy	Time from date of aRCC diagnosis to date of 1L index axitinib + pembrolizumab therapy initiation (months)			
Real–world duration of treatment (rwDOT)	Time from initiation of line of therapy to discontinuation of line of therapy for any reason. To be calculated both arithmetically and via KM method. For KM analysis, patients will be censored on the last office visit with the provider during the respective line of therapy if still receiving therapy. For combination therapies, DOT will be calculated for each individual therapy only and both therapies (time to discontinuation of first therapy and last therapy).			
Real-world overall response rate (rwORR)	Number of patients with CR or PR during 1L axitinib + pembrolizumab therapy over total number of patients with treatment response assessed during 1L index axitinib + pembrolizumab therapy			
Time to response	Among patients with a documented response (CR or PR), time from initiation of 1L index axitinib + pembrolizumab therapy to best physician-reported response (CR or PR)			
Real-world duration of response (rwDOR)	Time from physician-reported best response during 1L axitinib + pembrolizumab therapy to physician- reported disease progression or death. To be calculated both arithmetically and via KM method among patients with a documented response (CR or PR). For KM analysis, patients who did not progress or die will be censored at the start date of next line or date of last encounter, whichever comes first			
(rwTFI)	Time from discontinuation of line of therapy until initiation of subsequent therapy (up to 5L)			
Real-world time to next treatment (rwTTNT)	Time between the initiation of line of therapy and next subsequent treatment. Patients who do not			

#### Table 8. Calculated endpoints/clinical outcomes for exploratory objective

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Clinical Outcome	<b>Operational definition</b>			
	receive subsequent treatment will be censored at the date of last encounter or date of death.			
Number of AEs associated with therapy modifications/discontinuation	Number of AEs reported per patient that were associated with a therapy modification or discontinuation.			
Frequency of reported AEs (if applicable)*	Frequency of AE occurrence during 1L index axitinib + pembrolizumab therapy overall that resulted in a therapy modification or discontinuation			
Recurrence of AE associated with therapy modifications/discontinuation	Among patients with a reported AE, total number of episodes of the same AE type that resulted in separate therapy modifications/discontinuation while on 1L index axitinib + pembrolizumab therapy			
Time from 1L axitinib + pembrolizumab initiation to first AE occurrence associated with a therapy modification/discontinuation*	Among those who experienced at least 1 AE associated with a therapy modification/discontinuation: time from date of 1L index axitinib + pembrolizumab initiation to the date of first reported AE occurrence associated with a therapy modification/discontinuation (months)			
Time from 1L axitinib + pembrolizumab initiation to first severe AE occurrence associated with a therapy modification/discontinuation *	Among those who experienced at least one severe AE (Grade 3+) associated with a therapy modification/discontinuation: time from date of 1L index axitinib + pembrolizumab initiation to the date of first reported severe AE occurrence associated with a therapy modification or therapy discontinuation (months)			
Time from 1L axitinib + pembrolizumab initiation to first AE occurrence associated with a therapy modification*	Among those who experienced at least one AE associated with a therapy modification/discontinuation: time from date of 1L index axitinib + pembrolizumab initiation to the date of first reported AE occurrence associated with a therapy modification (months)			
Time from 1L axitinib + pembrolizumab initiation to first AE occurrence associated with therapy discontinuation*	Among those who experienced at least one AE associated with a therapy modification/discontinuation: time from date of 1L index axitinib + pembrolizumab initiation to the			

#### Table 8. Calculated endpoints/clinical outcomes for exploratory objective

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Clinical Outcome	Operational definition			
	date of first reported AE occurrence associated with therapy discontinuation (months)			
Time from 1L axitinib + pembrolizumab initiation to first treatment change	Among those who experienced at least one treatment change (reduction, increase, interruption): time from date of 1L index axitinib + pembrolizumab initiation to date of first reported dose modification (months)			
Time to AE resolution (if applicable)*	Time from date of AE onset to date of documented AE resolution/improvement (days) per each modification/discontinuation-associated AE occurrence during 1L index axitinib + pembrolizumab therapy			
Real-world progression-free survival (rwPFS)	Time from initiation of 1L axitinib + pembrolizumab therapy to charted disease progression or death from any cause, whichever occurs first. Patient still receiving index therapy at last encounter will be censored on date of last encounter. Patients who discontinue index therapy without date of progression/date will be censored on date of discontinuation. rwPFS will be calculated using several definitions of discontinuation (i.e., discontinuation of axitinib; discontinuation of pembrolizumab; discontinuation of both).			
Real-world overall survival (rwOS)	Time from 1L index axitinib + pembrolizumab therapy initiation and the date of death (event). Patients still alive at the end of follow-up/study end date will be censored on the date of last encounter. Median and survival point estimates will be calculated from the KM curve. If median survival cannot be estimated (e.g., median has not been reached due to data immaturity/high rate of censoring), the KM method will be used to estimate survival point estimates at 3, 6, 12, 18, and 24 months from treatment initiation as appropriate			

#### Table 8. Calculated endpoints/clinical outcomes for exploratory objective

\*Only captured if providers list AEs as rationale for dose modification or treatment discontinuation and complete subsequent AE-related follow-up questions (Table 5).

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#### 9.4. Data Sources

#### Primary Data – Physician Survey

Primary data on physicians' treatment management approaches will be collected via a onetime physician survey as part of the patient-level, retrospective, chart-based data collection. Based on the study objectives, a preliminary outline of key variables and datapoints to be collected by the physician survey is included in Section 9.3 above.

#### Secondary Data - Chart Abstraction

For secondary data collection, patient data will be abstracted and entered into an eCRF by physicians within the OPEN. The source documents are the patient chart/medical record data housed within the EHRs and accessed by the participating providers. Data abstracted into the eCRFs must match those charts.

Through the chart review approach, data elements contained in unstructured fields of the EHR (e.g., clinical progress notes, radiographic scans/reports, pathology reports) or those elements requiring a provider's interpretation (e.g., date of progression) can be collected. The eCRF is a custom data abstraction tool allowing the provider chart abstractor to input deidentified data directly from the patient EHR into a secure, web-based platform. The data elements that can be collected are limited by the length of time required for the participating provider to conduct the data abstraction, which may vary depending upon the complexity of data elements required and the patient's health record. Based on the study objectives, a preliminary outline of key variables and datapoints to be abstracted into the eCRF by participating physicians is included in Section 9.3 above.

No source document verification can be conducted by Cardinal Health; however, data QC, QA, and validation processes will be performed as described. These processes and systems are vetted during field testing with volunteer physicians, as described in Section 9.8.

#### 9.5. Study Size

This is a descriptive analysis of cross-sectional provider survey data and retrospective provider- and patient-level data. Given the descriptive nature, no hypotheses are specified a priori, and no formal hypothesis testing will be performed.

In a feasibility assessment conducted by Cardinal Health in October 2022 with physicians in Cardinal Health's OPEN network, 40 physicians, who had experience personally treating/managing patients with RCC, estimated that a total of 1,576 patients with RCC were treated/managed in their practice in the past 3 years (mean: 39.4 patients per provider; range: 5-102).

Among the 1,576 patients with RCC that were treated/managed in their practice in the past 3 years, 1,057 (67%) patients were diagnosed with advanced/metastatic disease (mean: 26.4 patients per provider; range: 4-50).
 Among the 1,057 patients that have been treated/managed in their practice with aRCC in the past 3 years, 459 (43%) were treated with combination axitinib and I-O therapy (Mean: 11.8 patients per provider; Range: 1-35).

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#### Primary Data – Physician Survey

This study aims to collect information from at least N=30 providers who have treated at least 5 patients with aRCC in the past year and currently are treating at least one with 1L axitinib + pembrolizumab. Cardinal Health has performed prior research and feasibility assessments that support our capabilities to conduct this physician survey study through the OPEN and achieve the proposed research objectives and sample size.

#### Secondary Data - Patient-Level Chart Abstraction Study

This study aims to collect data abstracted from the medical charts of N=300 total patients with aRCC who received 1L axitinib + pembrolizumab therapy. The sample size target of 300 patients for the chart-review was determined considering the objectives of the research, prior feasibility assessment (as described above), anticipated provider recruitment, and the method of chart data abstraction. Additionally, Cardinal Health has performed prior research and feasibility assessments that support our capabilities to conduct this chart review study through the OPEN and achieve the proposed research objectives and sample size.

Considering the targeted sample size for the chart review study (N=300), the 95% confidence intervals (CIs) around point estimates of binary event probabilities based on various subgroup sizes are shown below. Any statistical comparisons will be exploratory; however, it is important to consider the precision and face validity of estimates in smaller populations or proportions. Table 9 provides the precision levels for point estimates by sample size calculated via normal approximation and the Fleiss method, where appropriate.

Probability	95% Confidence Interval (CI)						
of event	Sample Size						
	N=30	N=50	N=75	N=100	N=150	N=200	N=300
5%	0.6%-21.3%	1.1%-16.2%	1.5%-13.4%	1.9%-11.8%	1.2%-8.8%	1.7%-8.3%	2.4%-7.6%
20%	4.0%-36.0%	7.9%-32.1%	10.3%-29.7%	11.7%-28.3%	13.3%-26.7%	14.2%-25.8%	15.3%-24.7%
30%	11.9%-48.1%	16.3%-43.7%	19.0%-41.0%	20.5%-39.5%	22.3%-37.7%	23.4%-36.6%	24.6%-35.4%
40%	20.8%-59.2%	25.4%-54.6%	28.2%-51.8%	29.9%-50.1%	31.8%-48.2%	33.0%-47.0%	34.3%-45.7%
50%	30.4%-69.6%	35.1%-64.9%	38.0%-62.0%	39.7%-60.3%	41.7%-58.3%	42.8%-57.2%	44.2%-55.8%

 Table 9.
 95% CIs for point estimates by sample size

#### 9.6. Data Management

#### Primary & Secondary Data

Provider survey (primary) and patient-level (secondary) data are entered by the provider into the eCRF, a custom data abstraction tool for capturing deidentified patient-level data directly into a secure, web-based survey platform (Qualtrics). The eCRF structure and format are designed to allow providers to efficiently move through the EHR while documenting the patient journey throughout the course of disease. The eCRF conforms to the rules and regulations of the Health Insurance Portability and Accountability Act (HIPAA) of 1996 governing the abstraction and storage of PHI. Limited and necessary to achieve study

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CT24-WI-GL02-RF01 6.0 Non-Interventional Study Protocol Template For Primary Data Collection Study 01-Aug-2023 Page 42 of 55 objectives PHI (e.g., start and end of treatment dates, date of death) will be collected in the course of the chart review or stored in the eCRF.

The Cardinal Health research team is responsible for the programming, testing, and hosting of data from submitted eCRFs, and all data are stored on encrypted, password-protected, and HIPAA-compliant servers housed within the Cardinal Health electronic data storage infrastructure.

Participating physicians will be asked to complete the chart review individually, meaning that site research staff or support staff will not complete any data abstraction. Physicians are instructed to consult all available sources and indicate whether data points have been substantiated by source materials in the EHR. The study variables that can be collected are limited to those that can be captured within the allotted 45 to 60 minutes.

Following protocol finalization, a text version of the CRF will be created, and once finalized, an eCRF will be programmed in Qualtrics. Variables are captured in numeric and text format, as appropriate, and grouped according to the study objectives as described in the protocol. The Qualtrics interface used for data entry and management provides screens for data entry and includes study-specific programming checks to help control data quality, consistency, and validity. No source document verification can be conducted by Cardinal Health; however, data QC, QA, and validation processes will be performed as described. The raw data entered into Qualtrics will be vetted through QA, QC, and validation procedures as described in Section 9.8, and a Cardinal Health analyst will export them into SAS v9.4 for data transformation and analysis, which will be used for all manipulations of data. Pfizer will not have access to the individual data collected.

# 9.6.1. Case Report Forms (CRFs)/Data Collection Tools (DCTs)/Electronic Data Record

# Primary Data Collection

As used in this protocol, the term CRF should be understood to refer to either a paper form or an electronic data record or both, depending on the data collection method used in this study.

A completed CRF is required for each included participant. The completed original CRFs are the sole property of Pfizer and should not be made available in any form to third parties, except for authorized representatives of Pfizer or appropriate regulatory authorities, without written permission from Pfizer. Cardinal Health shall ensure that the CRFs are securely stored in encrypted electronic form and will be password protected to prevent access by unauthorized third parties.

Cardinal Health has ultimate responsibility for the collection and reporting of all data entered on the CRFs as required and ensuring that they are accurate, authentic/original, attributable, complete, consistent, legible, timely (contemporaneous), enduring, and available when required. The CRF serves as the source document. Any corrections to entries made in the CRFs must be dated, initialed, and explained (if necessary) and should not obscure the original entry.

#### Secondary Data Collection

To enable evaluations and/or inspections/audits from regulatory authorities or Pfizer, the investigator agrees to keep records, including the identity of all participating patients (sufficient information to link records, e.g., CRFs and hospital records), copies of all CRFs, safety reporting forms, source documents, detailed records of treatment disposition, and adequate documentation of relevant correspondence (e.g., letters, meeting minutes, and telephone call reports). The records should be retained by the investigator according to local regulations or as specified in the clinical study agreement (CSA), whichever is longer. The investigator must ensure that the records continue to be stored securely for so long as they are retained.

If the investigator becomes unable for any reason to continue to retain study records for the required period (e.g., retirement, relocation), Pfizer should be prospectively notified. The study records must be transferred to a designee acceptable to Pfizer, such as another investigator, another institution, or to an independent third party arranged by Pfizer.

Study records must be kept for a minimum of 15 years after completion or discontinuation of the study, unless Cardinal Health and Pfizer have expressly agreed to a different period of retention via a separate written agreement. Record must be retained for longer than 15 years or as required by applicable local regulations.

The investigator must obtain Pfizer's written permission before disposing of any records, even if retention requirements have been met.

# 9.6.2. Record Retention

To enable evaluations and/or inspections/audits from regulatory authorities or Pfizer, the investigator agrees to keep records, including the identity of all participating patients (sufficient information to link records, e.g., CRFs and hospital records), copies of all CRFs, safety reporting forms, source documents, detailed records of treatment disposition, and adequate documentation of relevant correspondence (e.g., letters, meeting minutes, and telephone call reports). The records should be retained by the investigator according to local regulations or as specified in the clinical study agreement (CSA), whichever is longer. The investigator must ensure that the records continue to be stored securely for so long as they are retained.

If the investigator becomes unable for any reason to continue to retain study records for the required period (e.g., retirement, relocation), Pfizer should be prospectively notified. The study records must be transferred to a designee acceptable to Pfizer, such as another investigator, another institution, or to an independent third party arranged by Pfizer.

Study records must be kept for a minimum of 15 years after completion or discontinuation of the study unless Cardinal Health and Pfizer have expressly agreed to a different period of retention via a separate written agreement. Record must be retained for longer than 15 years or as required by applicable local regulations.

The investigator must obtain Pfizer's written permission before disposing of any records, even if retention requirements have been met.

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# 9.7. Data Analysis

This study is an observational cohort study of cross-sectional provider and retrospective provider-abstracted patient -level data. Given the observational nature, no hypotheses are specified *a priori*, and no formal hypothesis testing will be performed. Study results will be reported in aggregate overall (i.e., across the entire study population) and for subgroups of interest depending on sample size. All respondent data will be de-identified, and physicians and patients will remain anonymous to Pfizer, and vice-versa. All data processing and analysis will be performed in SAS v9.4.

Detailed methodology for summary and statistical analyses of data collected in this study will be documented in a statistical analysis plan (SAP), which will be dated, filed, and maintained by the sponsor. The SAP may modify the plans outlined in the protocol; any major modifications of primary endpoint definitions or their analyses would be reflected in a protocol amendment.

# Analysis plan for primary objectives

#### Secondary Data - Patient-Level Chart-Abstracted Data

The primary objectives of this study are descriptive and aim to describe and summarize among patients with aRCC who received 1L axitinib + pembrolizumab therapy (1) treatment patterns and sequences of 1L axitinib + pembrolizumab therapy and beyond (e.g., regimens received, rationale for treatment initiation/discontinuation, dose modifications, duration of treatment, time to next treatment) and (2) patient-level real-world treatment management of 1L axitinib + pembrolizumab therapy. Results for these objectives will be reported via descriptive analyses; frequencies and proportions will be used for dichotomous and categorical variables, and measures of centrality (mean, median) and spread (min, max, standard deviation, interquartile range, as appropriate) will be used for continuous variables. Treatment patterns, including regimens received, rationale for treatment initiation/discontinuation, and duration of treatment will be reported by line of therapy. Dose modification results will be reported for 1L axi+pembro only. Estimated incidence of AEs experienced during index therapy that resulted in a therapy modification or discontinuation will be descriptively summarized (overall) as the frequency of occurrence among all patients on axitinib + pembrolizumab therapy, if applicable.

#### Analysis plan for secondary/exploratory objectives

#### Primary Data – Physician Survey

Secondary objective 3 aims to characterize physician perceptions and treatment management approaches using the provider survey. These results will be reported via descriptive analyses as counts and frequencies for dichotomous and categorical variables and as measures of centrality (mean, median) and spread (min, max, SD, IQR, as appropriate) for continuous variables.

#### Secondary Data - Patient-Level Chart Abstraction

Secondary objective 1 aims to describe patient demographic and clinical characteristics based on chart review. These results will be reported via descriptive analyses as counts and

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Exploratory analyses will consist of describing real-world clinical outcomes including realworld overall response rate (rwORR), time to treatment response (rwTTR), duration of response (rwDOR), treatment-free interval (rwTFI), time to next treatment (rwTTNT), progression-free survival (rwPFS) and overall survival (rwOS). The rwORR, rwTTR, and rwDOR variables will be based on the reported dates of radiographic studies made during therapy. No independent blinded review of radiologic studies will be conducted. Clinical outcomes will be described arithmetically and time to event outcomes will be calculated using the KM method to allow for right-censoring. The KM method will be used to generate estimates of median time to event and associated 95% CIs; unadjusted comparisons in median time to event across cohorts will be made by log-rank tests. If median survival cannot be estimated (e.g., median has not been reached due to data immaturity/high rate of censoring), the KM method will be used to estimate survival point estimates at 3, 6, 12, 18, and 24 months from treatment initiation as appropriate.

Subgroups will be identified following the completion of data collection and data validation. Potential analysis groups of interest may include, but are not limited to, medical specialty of abstracting physician, patient race/ethnicity, patient risk assessment at baseline, severity of AE, AE type, or type of 1L axi+pembro dose modification. Additional subgroups may be identified upon completion of data collection and analysis and selection of subgroups for analyses will be dependent on adequate sample size.

# 9.8. Quality Control

Cardinal Health will be responsible for the programming, testing, and hosting of data from submitted CRFs. Testing includes ensuring functionality across web-based user environments, looping logic to ensure proper alignment of data-related fields (required responses to certain fields prior to entering data into subsequent field), and other programmatic checks to reduce input of erroneous data (such as specifying maximums for year of birth or initiation of index treatment within the dates of the enrollment period).

In addition, the eCRF will be field-tested with 4 providers to ensure its functionality, the correct interpretation of the questions in relation to the data points of interest, and the proper length of time for completion of data abstraction on a single patient. The pre-test results will be reviewed by Cardinal Health with Pfizer. No data from the pre-testing phase will be used in the current study. Additionally, prior to data collection (during the field test and actual study launch), Cardinal Health will complete the previously described user acceptance testing (UAT), inputting various clinical scenarios and identifying function edit checks and checks that are required to be made manually post-data collection. Results of the UAT will be included in the data QC log. Any changes made to the CRF document as a result of the pretest will require the resubmission of the CRF and study protocol to the IRB.

Participating providers are informed in their contractual agreement that follow-up with Cardinal Health may be required and are contacted for query resolution and/or data validation as needed. For medical queries and random data validation, providers will be PFIZER CONFIDENTIAL

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asked to create a 4-digit unique identifier for each patient, which will be transmitted to Cardinal Health and used for identifying the patient record for data validation. Data will be reviewed by a licensed HCP employee of Cardinal Health to identify medical queries. Data will be further reviewed by an analyst and scientist to check for face validity of aggregate results (e.g., statistical outliers; eCRF completion in an unexpectedly short time; treatment regimens unknown to be used for the disease under study; individual provider responses compared with aggregate responses; laboratory, pathology, and radiology results inconsistent with known clinical parameters; other clinical data inconsistent with known standards and outcomes; and distribution and content of key variables needed for analysis). Issues flagged for potential data validation will be resolved with the providers directly on a case-by-case basis. Any eCRF flagged during QC will be reviewed by the team to determine the level of follow-up needed. Individual eCRFs that cannot be validated will be removed from the dataset, and the respective provider will not be compensated for the eCRF that is removed.

Random data validation occurs by selecting a random eCRF from each provider submitting a patient. Providers subjected to random validation are asked to complete a 3 data pointvalidation exercise for the patient, whereby the provider is given the unique patient identifier but no other information. The provider is then asked to re-enter the data elements. The 3 data points may include: month/year of treatment initiation, stage at diagnosis, and date of treatment discontinuation (or date of last treatment/prescription if patient is still on therapy). Providers who had been previously verified by Cardinal Health will not be subject to random validation. A verified provider is any physician abstractor who has completed at least 2 of the following: (1) completed and acknowledged Cardinal Health web-based chart data abstraction training in the past 2 years, (2) participated in a chart review pre-test with screen sharing, (3) participated in two previous chart review studies in the past 2 years and accurately validated data, and (4) completed a phone interview with the Cardinal Health team for data validation. Despite a provider having been verified, however, he or she will still be required to answer questions regarding patients with data flagged by the research operations or research analytics teams. A provider who fails to validate all data points for a selected patient will be required to submit to further clinical data review. No resampling to replace any excluded eCRF will be conducted.

After completion of QC/QA reviews and for all completed eCRFs, the study database will be locked, and all data will be downloaded and stored on a secured server housed within the Cardinal Health Information Technology infrastructure. Analyses for all research objectives will be performed at that time.

#### 9.9. Limitations of the Research Methods

#### Strengths

The extensive Cardinal Health network of oncologists/hematologists is geographically diverse, EHR/GPO-agnostic, and inclusive of multiple settings of community oncology care, thus lending external validity and representativeness of the data. Retrospective medical chart review provides in-depth knowledge of biomarker testing, diagnostic testing, treatment patterns, clinical outcomes, and rationale for treatment decisions using an efficient, reliable, and verifiable method. Chart review studies are therefore well suited for oncology as these clinical parameters are important to assess the patient journey, especially with the current PFIZER CONFIDENTIAL

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#### **Limitations**

As is a limitation of any observational research study, not all patient characteristics will be included in the data collection (e.g., income and other variables that may influence physician prescribing behavior or treatment decisions), thereby allowing for potential unmeasured and residual confounding that cannot be accounted for in descriptive, univariate, multivariate, or subgroup analyses.

Cardinal Health does not, and cannot, conduct source document verification. Cardinal Health requires that all physicians submit to at least 1 random data validation check during the study whereby they are asked to re-enter 3 data points regarding a patient. Physicians failing to correctly re-enter data are subject to further review, and at the discretion of Cardinal Health, may have all patient records submitted removed from the analytic dataset.

This study employs purposive sampling that selects physicians and patients based on prespecified selection criteria and hence, this may not be representative of all patients within the cohorts of interest or representative of all physicians treating these patients. Physicians invited to participate in this study will represent a subset of OPEN physicians. Importantly, treatment patterns reflected in the study will represent only the practices of physicians who have volunteered to participate, and may vary from non-responding physicians (i.e., those who refused study participation or who did not respond to the screening invitation). No data will be available to describe non-participating providers or non-selected patients. Cardinal Health cannot verify that all patients who meet the study eligibility criteria are included in the final dataset, and participating providers will initially be limited to submitting a maximum of 10 eCRFs in an aim to minimize provider bias (this maximum number of eCRFs may be increased if necessary, to aid in recruitment following prior approval from Pfizer). However, based on estimates of eligible patients reported by physicians who participated in the short chart review study, we expect the majority of providers to manage 10 or fewer eligible patients. Although bias related to selection of patient subsets within practices may occur, physicians will be instructed to identify all eligible patients and to select patients chronologically starting with eligible patients who initiated the index treatment the

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CT24-WI-GL02-RF016.0 Non-Interventional Study Protocol Template For Primary Data Collection Study 01-Aug-2023 Page 48 of 55 earliest within the study index period. Additionally, these data will describe outcomes only for patients, who by design, have initiated the selected, approved 1L axitinib + pembrolizumab therapy. As such and coupled with a small sample size, outcomes may not be generalizable to all patients with aRCC.

Additionally, this study may be subject to bias due to missing data. Although physicians will be required to record all relevant patient experiences in the medical charts, there may be undercounting of events that are unknown to them due to having occurred outside the office/clinical setting. Further, loss to follow-up may occur if patients transfer care to other providers or clinics. As such, treatments, visits, and outcomes occurring after the date of last visit may be missing. Further, this study involves retrospective extraction of data from medical records. Thus, the accuracy and completeness of the data collected are limited by the quality and nature of data available in the EHR and abstracted into the eCRF. Further, loss to follow-up may occur if patients transfer care to other providers or clinics. As such, treatments, visits, and outcomes occurring after the date of last visit may be missing. Additionally, the follow-up period may not be long enough to observe all disease progression events during therapy.

Finally, findings from this study may be impacted by a lack of uniform assessment timepoints or imaging criteria for certain variables such as identification of metastasis or disease progression documentation in an EMR.

#### 9.10. Other Aspects

Not applicable.

# **10. PROTECTION OF HUMAN PARTICIPANTS**

At all times, patient PHI is kept confidential in accordance with HIPAA. The eCRF will not capture any data related to the patient's name, full date of birth, social security number, health insurance plan number, medical record number, or other such PHI. However, date of disease diagnosis, date(s) of treatment(s) administered (including dates of treatment), date of development of health states of interest (e.g., disease progression), and dates of death (if available) will be collected. These items are considered PHI under HIPAA. At no time will Pfizer be provided with PHI in the form of a dataset or otherwise; all study results will be reported in aggregate. Additionally, exact dates (e.g., of dose changes) will not be reported during analysis but will be used to calculate intervals of time between relevant anchor date and end dates of interest.

#### **10.1. Patient Information**

All parties will comply with all applicable laws, including laws regarding the implementation of organizational and technical measures to ensure protection of patient personal data. Such measures will include omitting patient names or other directly identifiable data in any reports, publications, or other disclosures, except where required by applicable laws.

The personal data will be stored at the study site in encrypted electronic form and will be password protected to ensure that only authorized study staff have access. The study site will implement appropriate technical and organizational measures to ensure that the personal data can be recovered in the event of disaster. In the event of a potential personal data breach, the

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To protect the rights and freedoms of natural persons with regard to the processing of personal data, when study data are compiled for transfer to Pfizer and other authorized parties, patient names will be removed and will be replaced by a single, specific, numerical code, based on a numbering system defined by Pfizer. All other identifiable data transferred to Pfizer or other authorized parties will be identified by this single, patient-specific code. The investigator site will maintain a confidential list of patients who participated in the study, linking each patient's numerical code to his or her actual identity. In case of data transfer, Pfizer will maintain high standards of confidentiality and protection of patients' personal data consistent with the clinical study agreement and applicable privacy laws.

#### 10.2. Patient Consent

#### Primary Data Collection

Primary data will be reported by participating physicians via survey. Pfizer will not be responsible for ensuring that the appropriate consenting processes or consenting waivers are in place for physicians and will defer this responsibility to the vendor Cardinal Health.

#### Secondary Data Collection

As this study does not involve data subject to privacy laws according to applicable legal requirements, obtaining informed consent from patients by Pfizer is not required.

#### 10.3. Institutional Review Board (IRB)/ Ethics Committee (EC)

There must be prospective approval of the study protocol, protocol amendments, and other relevant documents (e.g., informed consent forms if applicable) from the relevant IRBs/ECs. All correspondence with the IRB/EC must be retained. Copies of IRB/EC approvals must be forwarded to Pfizer.

# 10.4. Ethical Conduct of the Study

The study will be conducted in accordance with legal and regulatory requirements, as well as with scientific purpose, value and rigor and follow generally accepted research practices described in the Guidelines for Good Pharmacoepidemiology Practices (GPPs), Public Policy Committee of the International Society for Pharmacoepidemiology (ISPE 2008), the Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) guidelines, and with the ethical principles laid down in the Declaration of Helsinki.

# 11. MANAGEMENT AND REPORTING OF ADVERSE EVENTS/ADVERSE REACTIONS

#### Primary Data Collection

This study does not involve data collection on individual patients by their treating healthcare professionals and the physician survey used in this study does not intend to identify product safety information. The physician survey for this study will be completed online via a secure website. The physician survey does not provide a free text field where study participants

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CT24-WI-GL02-RF01 6.0 Non-Interventional Study Protocol Template For Primary Data Collection Study 01-Aug-2023 Page 50 of 55 could specify information that may constitute product safety information. Further, routine communication with study participants via email or phone with the study vendor is not expected during the conduct of the study. However, it is possible that a study participant may volunteer product safety information to study vendor while in conversation about the physician survey for any other reason (e.g., seeking information about the purpose of the study); this information must be reported as described below.

The following safety events must be reported on the NIS AEM Report Form: serious and non-serious AEs when associated with the use of the Pfizer product, and scenarios involving exposure during pregnancy, exposure during breast feeding, medication error, overdose, misuse, extravasation, lack of efficacy and occupational exposure (all reportable, regardless of whether associated with an AE), when associated with the use of a Pfizer product.

For exposure during pregnancy in studies of pregnant women, data on the exposure to axitinib during pregnancy, are not reportable unless associated with serious or non-serious adverse events.

In the event that a study participant volunteers product safety information, study vendor must complete the non-interventional study (NIS) adverse event monitoring (AEM) Report Form and submit to Pfizer within 24 hours of becoming aware of the safety event. Included in the completion of the NIS AEM Report Form is the study participant's contact information; complete contact information should be obtained so that, once the NIS AEM Report Form is sent to Pfizer, the NIS AEM Report Form can be assessed and processed according to Pfizer's standard operating procedures, including requests for follow-up to the study participant.

Study vendor who will serve to be available to study participants to answer questions during study participant completion of the data collection tool must complete the following Pfizer training requirements:

• "Your Reporting Responsibilities (YRRs) with Supplemental Topics".

These trainings must be completed by study vendor prior to the start of data collection. All trainings include a "Confirmation of Training Statement" (for signature by the trainee) as a record of completion of the training, which must be kept in a retrievable format. The study vendor will also provide copies of all signed training statements to Pfizer.

Re-training must be completed on an annual basis using the most current Your Reporting Responsibilities (YRR) with Supplemental Topics training materials. Where Pfizer issues an updated safety training program, including during the course of a calendar year, vendor shall ensure all vendor personnel complete the updated safety training within sixty (60) calendar days of issuance by Pfizer.

#### Secondary Data Collection

This study protocol requires human review of patient-level unstructured data; unstructured data refer to verbatim medical data, including text-based descriptions and visual depictions of medical information, such as medical records, images of physician notes, neurological scans, x-rays, or narrative fields in a database. The reviewer is obligated to report AEs with explicit

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CT24-WI-GL02-RF016.0 Non-Interventional Study Protocol Template For Primary Data Collection Study 01-Aug-2023 Page 51 of 55 attribution to any Pfizer drug that appear in the reviewed information (defined per the patient population and study period specified in the protocol). Explicit attribution is not inferred by a temporal relationship between drug administration and an AE but must be based on a definite statement of causality by a healthcare provider linking drug administration to the AE.

The requirements for reporting safety events on the NIS AEM Report Form to Pfizer Safety are as follows:

- All serious and non-serious AEs with explicit attribution to <u>any Pfizer drug</u> that appear in the reviewed information must be recorded on the eCRF and reported, within 24 hours of awareness, to Pfizer Safety using the NIS AEM Report Form.
- Scenarios involving drug exposure, including exposure during pregnancy, exposure during breast feeding, medication error, overdose, misuse, extravasation, lack of efficacy, and occupational exposure associated with the use of a Pfizer product must be reported, within 24 hours of awareness, to Pfizer Safety using the NIS AEM Report Form.
- For exposure during pregnancy in studies of pregnant women, data on the exposure to Pfizer product during pregnancy, are not reportable unless associated with serious or non-serious adverse events.
- For these AEs with an explicit attribution or scenarios involving exposure to a Pfizer product, the safety information identified in the unstructured data reviewed is captured in the Event Narrative section of the report form, and constitutes all clinical information known regarding these AEs. No follow-up on related AEs will be conducted.

All the demographic fields on the NIS AEM Report Form may not necessarily be completed, as the form designates, since not all elements will be available due to privacy concerns with the use of secondary data sources. While not all demographic fields will be completed, at the very least, at least one patient identifier (e.g., gender, age as captured in the narrative field of the form) will be reported on the NIS AEM Report Form, thus allowing the report to be considered a valid one in accordance with pharmacovigilance legislation. All identifiers will be limited to generalities, such as the statement "A 35-year-old female..." or "An elderly male..." Other identifiers will have been removed.

Additionally, the onset/start dates and stop dates for "Illness," "Study Drug," and "Drug Name" may be documented in month/year (mmm/yyyy) format rather than identifying the actual date of occurrence within the month /year of occurrence in the day/month/year (DD/MMM/YYYY) format.

All research staff members must complete the following Pfizer training requirements:

• "Your Reporting Responsibilities (YRRs) with Supplemental Topics."

These trainings must be completed by research staff members prior to the start of data collection. All trainings include a "Confirmation of Training Statement" (for signature by the trainee) as a record of completion of the training, which must be kept in a retrievable format. Copies of all signed training statements must be provided to Pfizer.

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CT24-WI-GL02-RF016.0 Non-Interventional Study Protocol Template For Primary Data Collection Study 01-Aug-2023 Page 52 of 55 Re-training must be completed on an annual basis using the most current Your Reporting Responsibilities (YRR) with Supplemental Topics training materials. Where Pfizer issues an updated safety training program, including during the course of a calendar year, vendor shall ensure all vendor personnel complete the updated safety training within sixty (60) calendar days of issuance by Pfizer.

# **12. PLANS FOR DISSEMINATING AND COMMUNICATING STUDY RESULTS**

Results from the final analysis may be submitted in the form of peer-reviewed publications and/or presented as an abstract or poster at scientific conferences.

In the event of any prohibition or restriction imposed (e.g., clinical hold) by an applicable competent authority in any area of the world, or if the party responsible for collecting data from the participant is aware of any new information which might influence the evaluation of the benefits and risks of a Pfizer product, Pfizer should be informed immediately.

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# 14. LIST OF TABLES

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# 16. ANNEX 1. LIST OF STAND ALONE DOCUMENTS

None.

# **17. ANNEX 2. ENCEPP CHECKLIST FOR STUDY PROTOCOLS**

Not applicable.

# **18. ANNEX 3. ADDITIONAL INFORMATION**

Not applicable.