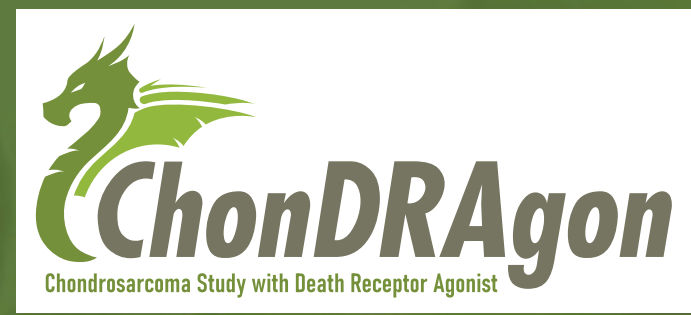


# A Randomized, Placebo-Controlled, Phase 2 Trial of INBRX-109 in Unresectable or Metastatic Conventional Chondrosarcoma



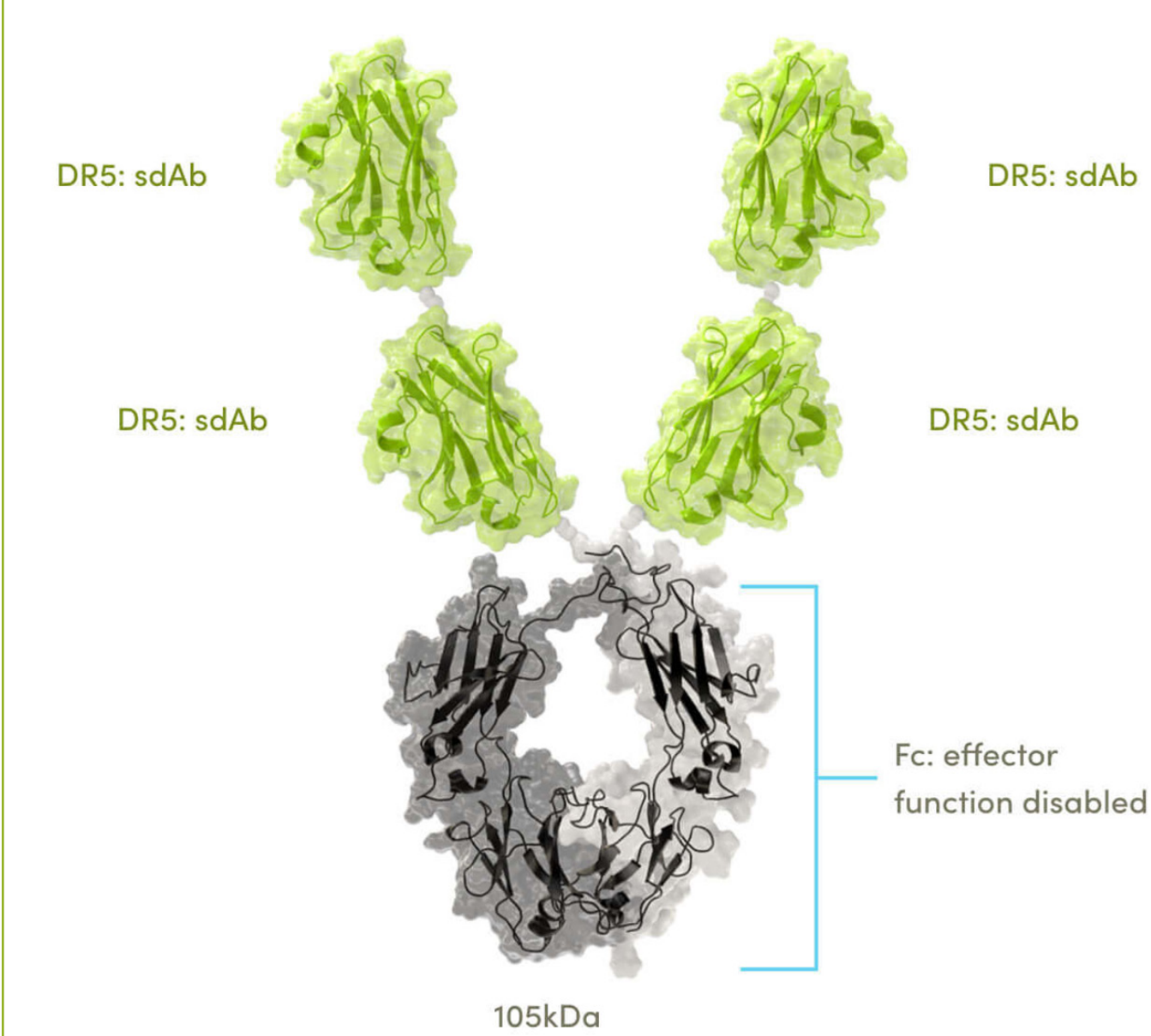
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## BACKGROUND

- Chondrosarcomas (CS) are a heterogeneous group of malignant bone tumors and the third most common type of primary bone cancer after myeloma and osteosarcoma<sup>1</sup>
  - CS form in the bone cartilage and usually start in the pelvis, scapula, ribs, or the ends of long bones<sup>2</sup>
- The conventional subtype of CS represents 85% to 90% of cases and is typically treated with surgical resection<sup>1</sup>
- However, conventional CS that are unresectable or metastatic are generally resistant to chemotherapy, radiation, and molecular targeted agents, and outcomes remain poor<sup>3</sup>
  - The median progression-free survival (PFS) in patients receiving inactive agents or placebo has historically been <4 months<sup>4</sup>
- Several agents for unresectable or metastatic conventional CS have been evaluated, but most of these have failed, and no systemic therapies have been approved<sup>5-9</sup>
- INBRX-109 is a third-generation, tetravalent agonistic antibody that targets human death receptor 5 (DR5)
  - DR5 is one of 2 pro-apoptotic receptors for the trimeric tumor necrosis factor-related apoptosis-inducing ligand (TRAIL)
  - TRAIL selectively induces programmed cell death in cancer cells with minimal impact on normal tissues and therefore plays an important role in tumor and viral immune surveillance<sup>10</sup>
  - The valency of INBRX-109 was empirically selected to include 4 DR5 binding domains to overcome the limitations of earlier-generation agonists and potentially agonize DR5 through efficient receptor clustering, causing cell death

## Structure of INBRX-109



DR5, death receptor 5; Fc, crystallizable fragment; sdAb, single domain antibody.

- INBRX-109 is based on a single domain antibody (sdAb) platform
  - It consists of 2 identical camelid heavy-chain-only antibody-binding domains targeting DR5
  - These domains are joined end to end with an effector silenced Fc constant domain based on human immunoglobulin G1
- By way of our sdAb platform, INBRX-109 eliminates recognition by preexisting antidrug antibodies (ADAs), lessening the potential for hyperclustering
  - Previous tetravalent DR5 agonists failed in the clinic due to hepatotoxicity, likely due to hyperclustering by ADAs<sup>11</sup>

## Inclusion/Exclusion Criteria

Key Inclusion Criteria	Key Exclusion Criteria
<ul style="list-style-type: none"> <li>Age ≥18 years</li> <li>Conventional chondrosarcoma <ul style="list-style-type: none"> <li>Unresectable or metastatic</li> <li>Grade 2 or 3 per AJCC 8th edition</li> <li>Any number of prior lines of therapy</li> </ul> </li> <li>Measurable disease by RECIST v1.1</li> <li>Radiological progression of disease per RECIST v1.1 criteria within 6 months prior to screening</li> <li>Adequate hematologic, coagulation, hepatic, and renal function as defined per protocol</li> <li>ECOG performance status of 0 or 1</li> <li>Estimated life expectancy of ≥12 weeks</li> <li>Availability of archival tissue or fresh cancer biopsy</li> </ul>	<ul style="list-style-type: none"> <li>Any prior exposure to DR5 agonists</li> <li>Nonconventional chondrosarcoma (eg, clear-cell, mesenchymal, extraskelatal myxoid, myxoid, and dedifferentiated chondrosarcoma)</li> <li>Symptomatic active CNS metastases or leptomeningeal disease <ul style="list-style-type: none"> <li>Patients with controlled asymptomatic CNS metastases are eligible</li> </ul> </li> <li>Chronic liver diseases, including NASH, NAFLD, alcohol-related liver disease, and cirrhosis <ul style="list-style-type: none"> <li>Patients aged &lt;64 years with NAFLD are eligible if adequate hepatic function is confirmed</li> </ul> </li> <li>Patients aged ≥65 years with BMI &gt;30 kg/m<sup>2</sup></li> <li>Acute viral or toxic liver disease within 4 weeks prior to first dose of study treatment</li> <li>Evidence or history of HBV, HCV, or HIV infection</li> </ul>

AJCC, American Joint Committee on Cancer; BMI, body mass index; CNS, central nervous system; DR5, death receptor 5; ECOG, Eastern Cooperative Oncology Group; HBV, hepatitis B virus; HCV, hepatitis C virus; NAFLD, non-alcoholic fatty liver disease; NASH, non-alcoholic steatohepatitis; RECIST, Response Evaluation Criteria in Solid Tumors.

## Endpoints

### Primary Endpoint

- PFS per RECIST v1.1 assessed by central real-time IRR in the ITT population
  - PFS is defined as the time from randomization to disease progression or death due to any cause, whichever occurs first

### Secondary Endpoints

- Overall survival
- PFS by investigator assessment
- ORR, DOR, and DCR per RECIST v1.1 by real-time IRR
- QOL (EORTC QLQ-C30)
- Safety (TEAEs, including SAEs, graded by CTCAE v5.0)
- Immunogenicity of INBRX-109
- PK characterization

CTCAE, Common Terminology Criteria for Adverse Events; DCR, disease control rate; DOR, duration of response; IRR, independent radiology review; ITT, intention to treat; ORR, overall response rate; PFS, progression-free survival; PK, pharmacokinetics; QOL, quality of life; RECIST, Response Evaluation Criteria in Solid Tumors; SAE, serious adverse event; TEAE, treatment-emergent adverse event.

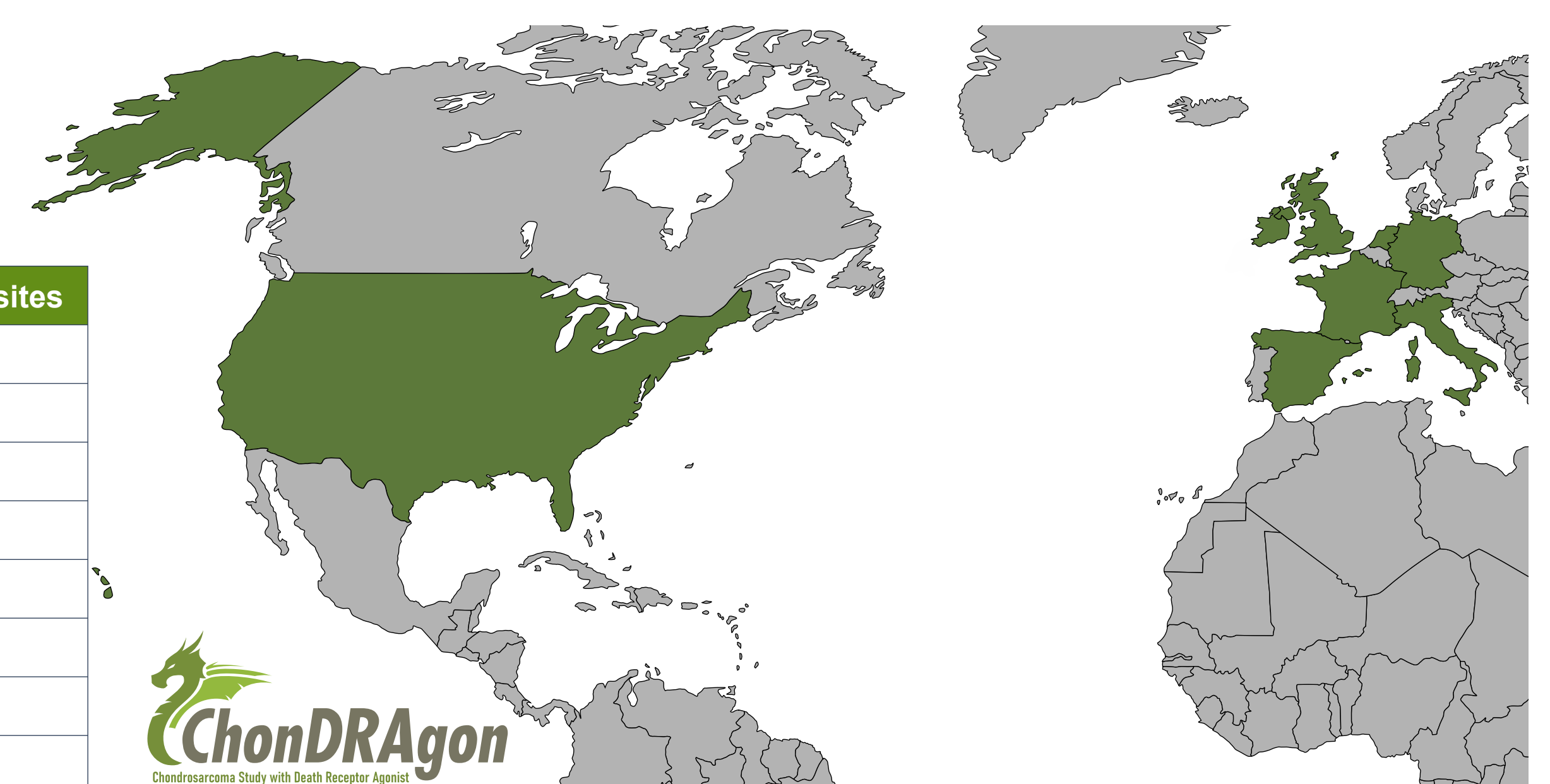
## PLANNED ENROLLMENT

If interested in participating in this clinical trial, please contact Michelle Darling or Kevin Bayer at [clinicaltrials@inhibrx.com](mailto:clinicaltrials@inhibrx.com)

8 countries

51 sites

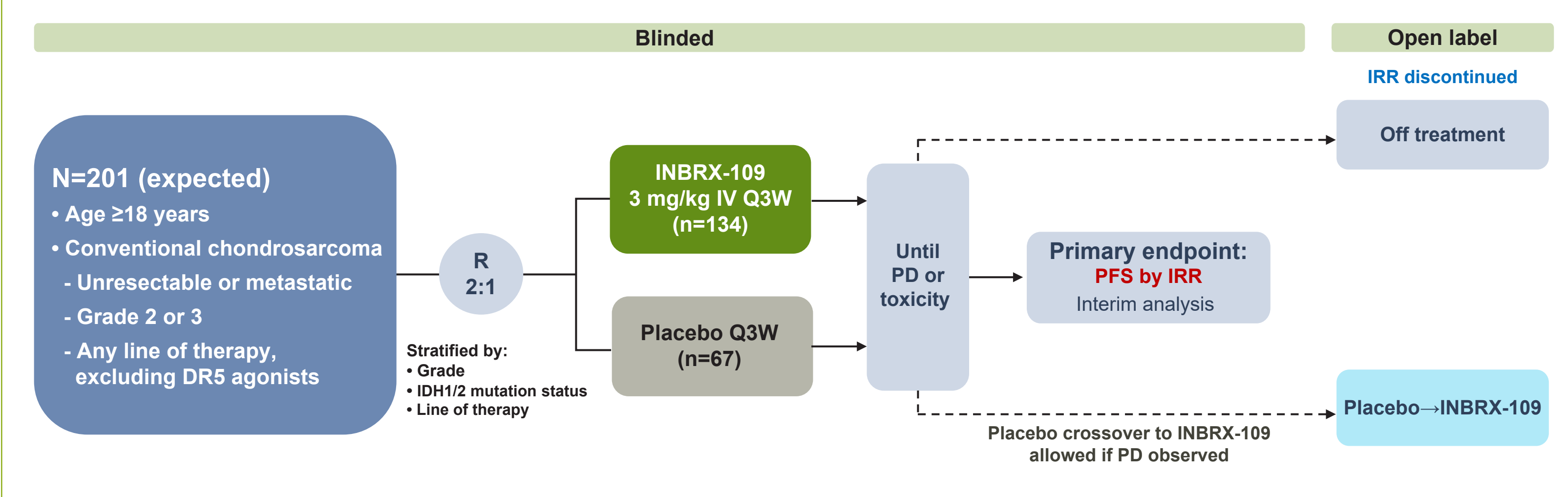
Country	No. of sites
United States	30
France	3
Germany	2
Ireland	1
Italy	4
Netherlands	2
Spain	5
United Kingdom	4



## METHODS

- ChonDRAGON (NCT04950075) is a multicenter, randomized, blinded, placebo-controlled phase 2 study of INBRX-109 in patients with unresectable or metastatic conventional CS

### Study Design



DR5, death receptor 5; IDH1/2, isocitrate dehydrogenase; IRR, independent radiology review; IV, intravenous; PD, progressive disease; PFS, progression-free survival; Q3W, every 3 weeks; R, randomized.

## References

- Dorfman HD, et al. *Cancer*. 1995;75(1 suppl):203-210.
- Brown HK, et al. *Calcif Tissue Int*. 2018;102(2):174-195.
- Biermann JS, et al. *J Natl Compr Canc Netw*. 2017;15(2):155-167.
- Wagner AJ, et al. Results from a phase 2 randomized, placebo-controlled, double blind study of the hedgehog pathway antagonist IPI-926 in patients with advanced chondrosarcoma. Presentation at CTOS; 2013; New York, NY.
- Tawbi HA, et al. *Lancet Oncol*. 2017;18(11):1493-1501.
- Chow W, et al. *Cancer*. 2020; 126(1):105-111.
- Kostine M, et al. *Mod Pathol*. 2016;29(9):1028-1037.
- Bové JV, et al. *Nat Rev Cancer*. 2010;10(7):481-488.
- Speetjens FM, et al. *Curr Opin Oncol*. 2016;28(4):314-322.
- Ashkenazi A, et al. *J Clin Invest*. 1999;104(2):155-162.
- Papadopoulos KP, et al. *Cancer Chemother Pharmacol*. 2015;75(5):887-895.
- Subbiah V, et al. CTOS 2021. Abstract 1818756.

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