

SANFORD GUIDE



Antimicrobial Therapy, Inc
Sperryville, VA

Content Delivery API Specification

Document Version 1.8

SANFORD GUIDE



In the era of antimicrobial resistance, it is increasingly vital to prescribe the right drug in the right dose for the right duration. As one of the first antimicrobial stewardship tools developed, Sanford Guide has aided in this effort for half a century, and continues to expand our content to support appropriate use of antimicrobials.

The Sanford Guide API provides a simple and convenient way to integrate industry-leading Sanford Guide content into your EHR, CDS, LIS, Surveillance, or other Health-care IT platform. Use our content-delivery service to query the full suite of Sanford Guide content and deliver concise treatment recommendations optimized for use at the point of care.

For more information, contact:

Scott Kelly, Vice President
contentapi@sanfordguide.com
+1 540-987-9480

Sanford Guide Content Integration

Introduction

Since 1969, The Sanford Guide has been a leading antimicrobial stewardship resource, aiding prescribers in administering antibiotics in an effective, efficient, and responsible manner. Our content is carefully curated for use in clinical settings, providing medical professionals with the information they need to improve patient outcomes, reduce costs, and aid in the stewardship of antimicrobial agents.

It is now possible to integrate Sanford Guide content into your company's technology platform. Through this integration, users will have the ability to search, navigate, and reference Sanford Guide content without exiting your technology platform. Integrating with Sanford Guide content is as simple as leveraging API services that provide our content to your users.

Sanford Guide API Services	Page
Full Text Search Service	4
Content Map Service	5
Content Delivery Service	6
Spectra Map Service	7
Antibacterial Spectra Recommendations Service (Agent)	9
Antibacterial Spectra Recommendations Service (Pathogen)	11
Antifungal Spectra Recommendations Service (Agent)	13
Antifungal Spectra Recommendations Service (Fungus)	15
Antiviral Spectra Recommendations Service (Agent)	17
Antiviral Spectra Recommendations Service (Virus)	19

Full Text Search Service

The *full text search service* provides the capability to query Sanford Guide content in a search engine format. This is a GET request leveraging Basic Authentication.

Request Parameters

Field Key	Value Type	Description
search	String	The search criteria. May contain multiple words; may utilize single or double quotes to search for a phrase

Response Format

Field Key	Value Type	Always Appears	Description
id	String	Yes	The content ID of the result; may be used by the <i>content delivery service</i> to retrieve the contents of the given page
title	String	Yes	The title of the given page
description	String	No	Additional title information (if available)

Example Response:

```
[
  {
    "id" : "d936a88eb46866885e57bad60bc28c9e",
    "title" : "Arthritis, Septic, Staph. aureus"
  },
  {
    "id" : "4a3426e0-0abd-4a80-85c9-8f254060e753",
    "title" : "Kingella kingae"
  },
  {
    "id" : "ba5fa3283cd3493dba71727e757c349e",
    "title" : "ARV Regimens Not Recommended, "
    "description" : "Adult"
  },
  ...
]
```

Content Map Service

The *content map service* provides the capability to navigate the Sanford Guide content menu structure. This is a GET request leveraging Basic Authentication.

Request Parameters

Field Key	Value Type	Description
id	String	The content ID of the selected menu item; if not provided, default is root menu

Response Format

Field Key	Value Type	Always Appears	Description
id	String	Yes	The content ID of the menu object
title	String	Yes	The navigation title of the menu object
children	Array	Yes	An array containing nested menus and content pages
[x].id	String	Yes	The content ID of the child object
[x].type	String	Yes	Either “ menu ” (nested menu) or “ page ” (content page)
[x].title	String	Yes	The navigation title of the child object
[x].description	String	No	The secondary description text of the child object

Example Response:

```
{
  "id": "97ee6cad-fa84-4342-a0cf-e577a94bfd24",
  "title": "Syndromes",
  "children": [
    {
      "id": "2bba1dae59874959b6323d83b22abedft",
      "type": "page",
      "title": "Duration of Therapy, Antibacterial",
      "description": "Antibacterial"
    },
    ...
  ]
}
```

Content Delivery Service

The *content delivery service* provides the capability to view the HTML of a given Sanford Guide page. This is a GET request leveraging Basic Authentication.

Request Parameters

Field Key	Value Type	Description
id	String	The content ID of the Sanford Guide content page

Example Response:

```
<!DOCTYPE html>  
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">  
  <head> ... </head>  
  <body> ... </body>  
</html>
```

Antibacterial Spectra Map Service

The *spectra map service* provides a list of all agents and pathogens displayed within the Antibacterial Spectra. This is a GET request leveraging Basic Authentication.

Response Format

Field Key	Value Type	Always Appears	Description
agents	Array	Yes	An array containing all of the agent objects
[x].id	String	Yes	The content ID of the agent (empty string if null)
[x].agent_id	Integer	Yes	The Antibacterial Spectra ID of the agent
[x].name	String	Yes	The name of the agent
[x].display_name	String	Yes	The Antibacterial Spectra displayed name of the agent (null if identical to name)
[x].url	String	Yes	The <i>content delivery service</i> URL of the agent (empty string if null)
[x].comments	String	Yes	Sanford Guide editorial commentary (or null)
[x].agent_group	String	Yes	The agent's antibacterial group name
[x].group_display_name	String	Yes	The Antibacterial Spectra displayed name of the agent's group (null if identical to agent_group)
pathogens	Array	Yes	An array containing all of the pathogen objects
[x].id	String	Yes	The content ID of the pathogen (empty string if null)
[x].pathogen_id	Integer	Yes	The Antibacterial Spectra ID of the pathogen
[x].name	String	Yes	The name of the pathogen
[x].display_name	String	Yes	The Antibacterial Spectra displayed name of the pathogen (null if identical to name)
[x].url	String	Yes	The <i>content delivery service</i> URL of the pathogen (empty string if null)
[x].comments	String	Yes	Sanford Guide editorial commentary (or null)
[x].pathogen_group	String	Yes	The pathogen's group name
[x].group_display_name	String	Yes	The Antibacterial Spectra displayed name of the pathogen's group (null if identical to pathogen_group)

Example Response:

```
{
  "agents": [
    {
      "id": "0cc2935f7dc740f8baa35dc67d50d0a4",
      "agent_id": 1,
      "name": "Penicillin G",
      "display_name": null,
      "url": "https://...", "comments": null,
      "agent_group": "Penicillins",
      "group_display_name": "Pen"
    },
    {
      "id": "8186eddc4d454f01ae541820945c3969",
      "agent_id": 2,
      "name": "Penicillin VK",
      "display_name": null,
      "url": "https://...",
      "comments": null,
      "agent_group": "Penicillins",
      "group_display_name": "Pen"
    },
    ...
  ],
  "pathogens": [
    {
      "id": "78dd97ca60881918aced57b5ddacdf02",
      "pathogen_id": 1,
      "name": "Enterococcus faecalis, susceptible",
      "display_name": "E. faecalis (S)",
      "url": "https://...",
      "comments": null,
      "pathogen_group": "Aerobic, gram positive cocci",
      "group_display_name": "Aer GPC"
    },
    {
      "id": "45e2c1e5653d49cba5290cdf3026ab2d",
      "pathogen_id": 2,
      "name": "Enterococcus faecium, susceptible",
      "display_name": "E. faecium (S)",
      "url": "https://",
      "comments": null,
      "pathogen_group": "Aerobic, gram positive cocci",
      "group_display_name": "Aer GPC"
    },
    ...
  ]
}
```


Antifungal Spectra Map Service

The *spectra map service* provides a list of all agents and fungi displayed within the Antifungal Spectra. This is a GET request leveraging Basic Authentication.

Response Format

Field Key	Value Type	Always Appears	Description
agents	Array	Yes	An array containing all of the agent objects
[x].id	String	Yes	The content ID of the agent (empty string if null)
[x].agent_id	Integer	Yes	The Antifungal Spectra ID of the agent
[x].name	String	Yes	The name of the agent
[x].display_name	String	Yes	The Antifungal Spectra displayed name of the agent (null if identical to name)
[x].url	String	Yes	The <i>content delivery service</i> URL of the agent (empty string if null)
[x].comments	String	Yes	Sanford Guide editorial commentary (or null)
[x].agent_group	String	Yes	The agent's antifungal group name
[x].group_display_name	String	Yes	The Antifungal Spectra displayed name of the agent's group (null if identical to agent_group)
fungi	Array	Yes	An array containing all of the fungus objects
[x].id	String	Yes	The content ID of the fungus (empty string if null)
[x].fungus_id	Integer	Yes	The Antifungal Spectra ID of the fungus
[x].name	String	Yes	The name of the fungus
[x].display_name	String	Yes	The Antifungal Spectra displayed name of the fungus (null if identical to name)
[x].url	String	Yes	The <i>content delivery service</i> URL of the fungus (empty string if null)
[x].comments	String	Yes	Sanford Guide editorial commentary (or null)
[x].fungus_group	String	Yes	The fungus's group name
[x].group_display_name	String	Yes	The Antifungal Spectra displayed name of the fungus's group (null if identical to fungus_group)

Example Response:

```
{
  "agents": [
    {
      "id": "3aee13e0dce72035c4adfc5f82e3c3b7",
      "agent_id": 1,
      "name": "Fluconazole",
      "display_name": null,
      "url": "https://...",
      "comments": null,
      "agent_group": "Antifungal Drugs",
      "group_display_name": null
    },
    {
      "id": "c6c45a491c2f8e6f2307f528bc25e58c",
      "agent_id": 2,
      "name": "Itraconazole",
      "display_name": null,
      "url": "https://...",
      "comments": null,
      "agent_group": "Antifungal Drugs",
      "group_display_name": null
    },
    ...
  ],
  "fungi": [
    {
      "id": "",
      "fungus_id": 1,
      "name": "Aspergillus fumigatus",
      "display_name": null,
      "url": "",
      "comments": null,
      "fungus_group": "Fungi",
      "group_display_name": null
    },
    ...
    {
      "id": "be51ab4f13d24eb2b31182fe95bb1572",
      "fungus_id": 5,
      "name": "Candida albicans",
      "display_name": null,
      "url": "https://...",
      "comments": null,
      "fungus_group": "Fungi",
      "group_display_name": null
    },
    ...
  ]
}
```

Antiviral Spectra Map Service

The *spectra map service* provides a list of all agents and viruses displayed within the Antiviral Spectra. This is a GET request leveraging Basic Authentication.

Response Format

Field Key	Value Type	Always Appears	Description
agents	Array	Yes	An array containing all of the agent objects
[x].id	String	Yes	The content ID of the agent (empty string if null)
[x].agent_id	Integer	Yes	The Antiviral Spectra ID of the agent
[x].name	String	Yes	The name of the agent
[x].display_name	String	Yes	The Antiviral Spectra displayed name of the agent (null if identical to name)
[x].url	String	Yes	The <i>content delivery service</i> URL of the agent (empty string if null)
[x].comments	String	Yes	Sanford Guide editorial commentary (or null)
[x].agent_group	String	Yes	The agent's antiviral group name
[x].group_display_name	String	Yes	The Antiviral Spectra displayed name of the agent's group (null if identical to agent_group)
viruses	Array	Yes	An array containing all of the virus objects
[x].id	String	Yes	The content ID of the virus (empty string if null)
[x].virus_id	Integer	Yes	The Antiviral Spectra ID of the virus
[x].name	String	Yes	The name of the virus
[x].display_name	String	Yes	The Antiviral Spectra displayed name of the virus (null if identical to name)
[x].url	String	Yes	The <i>content delivery service</i> URL of the virus (empty string if null)
[x].comments	String	Yes	Sanford Guide editorial commentary (or null)
[x].virus_group	String	Yes	The virus's group name
[x].group_display_name	String	Yes	The Antiviral Spectra displayed name of the virus's group (null if identical to virus_group)

Example Response:

```
{
  "agents": [
    {
      "id": "8a1d607b28ed471eafef818c8e74519d",
      "agent_id": 1,
      "name": "Remdesivir",
      "display_name": null,
      "url": "https://...",
      "comments": null,
      "agent_group": "Coronavirus",
      "group_display_name": null
    },
    {
      "id": "61903d29a459ccc2c6b4cc23c7085f90",
      "agent_id": 2,
      "name": "Adefovir",
      "display_name": null,
      "url": "https://...",
      "comments": null,
      "agent_group": "Hepatitis B",
      "group_display_name": null
    },
    ...
  ],
  "viruses": [
    {
      "id": "654c52b9b05394b9d6d1d7df1699be87",
      "virus_id": 1,
      "name": "Adenovirus",
      "display_name": null,
      "url": "https://...",
      "comments": null,
      "virus_group": "Viruses",
      "group_display_name": null
    },
    {
      "id": "2901cc86fb52a95619ee230cbfc7767e",
      "virus_id": 2,
      "name": "BK Virus",
      "display_name": null,
      "url": "https://...",
      "comments": null,
      "virus_group": "Viruses",
      "group_display_name": null
    },
    ...
  ]
}
```

Antibacterial Spectra Recommendations Service (Agent)

The spectra recommendations service provides Antibacterial Spectra data for a particular agent. This is a GET request leveraging Basic Authentication.

Request Parameters

Field Key	Value Type	Description
agent_id	Integer	The Antibacterial Spectra ID of a given agent

Response Format

Field Key	Value Type	Always Appears	Description
agent	Object	Yes	The requested agent object
.id	String	Yes	The content ID of the agent
.agent_id	Integer	Yes	The Antibacterial Spectra ID of the agent
.agent_name	String	Yes	The name of the agent
.recommendations	Array	Yes	An array containing the agent's recommendation objects
[x]	Object	Yes	A recommendation object; X = recommendation id (see below)
[x].id	String	Yes	Recommendation text (Recommended, Active, etc.)
[x].symbol	String	Yes	The recommendation symbol (++, +, ±, etc.)
[x].definition	String	Yes	Sanford Guide editorial description of recommendation
[x].interactions	Array	Yes	An array containing the recommendation's interactions
.pathogen	Object	Yes	The pathogen associated with agent interaction
.id	String	Yes	The content ID of the pathogen
.pathogen_id	Integer	Yes	The Antibacterial Spectra ID of the pathogen
.pathogen_name	String	Yes	The name of the pathogen
.comments	String	Yes	Sanford Guide editorial commentary (or null)

Example Response:

```
{
  "agent": {
    "id": "a3103c6d01e94723925778de78d8ba64",
    "agent_id": 58,
    "agent_name": "Daptomycin",
    "recommendations": {
      "Recommended": {
        "id": "Recommended",
        "symbol": "++",
        "definition": "Agent is a first line therapy: reliably active...",
        "interactions": [
          {
            "pathogen": {
              "id": "ee0cd173a6ddd984146a0f7fa88fb5cd",
              "pathogen_id": 168,
              "pathogen_name": "Staphylococcus epidermidis..."
            },
            "comments": null
          },
          {
            "pathogen": {
              "id": "061ff64613ad8fbb926aeebffa2a813",
              "pathogen_id": 9,
              "pathogen_name": "Staphylococcus sp..."
            },
            "comments": null
          },
          ...
        ],
      },
      "Active": {
        "id": "Active",
        "symbol": "+",
        "definition": "Agent is a potential alternative agent...",
        "interactions": [
          {
            "pathogen": {
              "id": "78dd97ca60881918aced57b5ddacdf02",
              "pathogen_id": 1,
              "pathogen_name": "Enterococcus faecalis, susceptible"
            },
            "comments": null
          },
          ...
        ],
      },
      ...
    ],
  },
  ...
}
```

Antibacterial Spectra Recommendations Service (Pathogen)

The spectra recommendations service provides Antibacterial Spectra data for a particular pathogen. This is a GET request leveraging Basic Authentication.

Request Parameters

Field Key	Value Type	Description
pathogen_id	Integer	The Antibacterial Spectra ID of a given pathogen

Response Format

Field Key	Value Type	Always Appears	Description
pathogen	Object	Yes	The requested pathogen object
.id	String	Yes	The content ID of the pathogen
.pathogen_id	Integer	Yes	The Antibacterial Spectra ID of the pathogen
.pathogen_name	String	Yes	The name of the pathogen
.recommendations	Array	Yes	An array containing the pathogen's recommendation objects
[x]	Object	Yes	A recommendation object; X = recommendation id (see below)
[x].id	String	Yes	Recommendation text (Recommended, Active, etc.)
[x].symbol	String	Yes	The recommendation symbol (++, +, ±, etc.)
[x].definition	String	Yes	Sanford Guide editorial description of recommendation
[x].interactions	Array	Yes	An array containing the recommendation's interactions
.agent	Object	Yes	The agent associated with pathogen interaction
.id	String	Yes	The content ID of the agent
.agent_id	Integer	Yes	The Antibacterial Spectra ID of the agent
.agent_name	String	Yes	The name of the agent
.comments	String	Yes	Sanford Guide editorial commentary (or null)

Example Response:

```
{
  "pathogen": {
    "id": "e4f0fc9985540ce691de8d2ad6cc2f01",
    "pathogen_id": 25,
    "pathogen_name": "Escherichia coli, susceptible",
    "recommendations": {
      "Recommended": {
        "id": "Recommended",
        "symbol": "++",
        "definition": "Agent is a first line therapy: reliably active...",
        "interactions": [],
      },
      "Active": {
        "id": "Active",
        "symbol": "+",
        "definition": "Agent is a potential alternative agent...",
        "interactions": [
          {
            "agent": {
              "id": "a5ac7fc4ce704d028154d103512ba1c2",
              "agent_id": 10,
              "agent_name": "Amoxicillin-Clavulanate"
            },
            "comments": null
          },
          {
            "agent": {
              "id": "e576046eafc64bc5b5c25b8f297dc8cb",
              "agent_id": 11,
              "agent_name": "Ampicillin-Sulbactam"
            },
            "comments": null
          }
        ],
        ...
      ]
    },
    ...
  }
}
```


Antifungal Spectra Recommendations Service (Agent)

The spectra recommendations service provides Antifungal Spectra data for a particular agent. This is a GET request leveraging Basic Authentication.

Request Parameters

Field Key	Value Type	Description
agent_id	Integer	The Antifungal Spectra ID of a given agent

Response Format

Field Key	Value Type	Always Appears	Description
agent	Object	Yes	The requested agent object
.id	String	Yes	The content ID of the agent (empty string if null)
.agent_id	Integer	Yes	The Antifungal Spectra ID of the agent
.agent_name	String	Yes	The name of the agent
.recommendations	Array	Yes	An array containing the agent's recommendation objects
[x]	Object	Yes	A recommendation object; X = recommendation id (see below)
[x].id	String	Yes	Recommendation text (Recommended, Active, etc.)
[x].symbol	String	Yes	The recommendation symbol (++, +, ±, etc.)
[x].definition	String	Yes	Sanford Guide editorial description of recommendation
[x].interactions	Array	Yes	An array containing the recommendation's interactions
.fungus	Object	Yes	The fungus associated with agent interaction
.id	String	Yes	The content ID of the fungus (empty string if null)
.fungus_id	Integer	Yes	The Antifungal Spectra ID of the fungus
.fungus_name	String	Yes	The name of the fungus
.comments	String	Yes	Sanford Guide editorial commentary (or null)

Example Response:

```
{
  "agent": {
    "id": "c6c45a491c2fbc6f2307f528bc25e58c",
    "agent_id": 2,
    "agent_name": "Itraconazole",
    "recommendations": {
      "Recommended": {
        "id": "Recommended",
        "symbol": "+",
        "definition": "Agent is a first line therapy: reliably active...",
        "interactions": [
          {
            "fungus": {
              "id": "",
              "fungus_id": 15,
              "fungus_name": "Dematiaceous molds"
            },
            "comments": null
          },
          {
            "fungus": {
              "id": "",
              "fungus_id": 20,
              "fungus_name": "Talaromyces marneffeii"
            },
            "comments": null
          }
        ],
        ...
      ],
    },
    "Active": {
      "id": "Active",
      "symbol": "+",
      "definition": "Agent is a potential alternative agent...",
      "interactions": [
        {
          "fungus": {
            "id": "d6c683c3854240c89db001c91e4efd9e",
            "fungus_id": 11,
            "fungus_name": "Candida lusitaniae"
          },
          "comments": null
        }
      ],
      ...
    ]
  },
  ...
}
```

Antifungal Spectra Recommendations Service (Fungus)

The spectra recommendations service provides Antifungal Spectra data for a particular fungus. This is a GET request leveraging Basic Authentication.

Request Parameters

Field Key	Value Type	Description
fungus_id	Integer	The Antifungal Spectra ID of a given fungus

Response Format

Field Key	Value Type	Always Appears	Description
fungus	Object	Yes	The requested fungus object
.id	String	Yes	The content ID of the fungus (empty string if null)
.fungus_id	Integer	Yes	The Antifungal Spectra ID of the fungus
.fungus_name	String	Yes	The name of the fungus
.recommendations	Array	Yes	An array containing the fungus's recommendation objects
[x]	Object	Yes	A recommendation object; X = recommendation id (see below)
[x].id	String	Yes	Recommendation text (Recommended, Active, etc.)
[x].symbol	String	Yes	The recommendation symbol (++, +, ±, etc.)
[x].definition	String	Yes	Sanford Guide editorial description of recommendation
[x].interactions	Array	Yes	An array containing the recommendation's interactions
.agent	Object	Yes	The agent associated with fungus interaction
.id	String	Yes	The content ID of the agent (empty string if null)
.agent_id	Integer	Yes	The Antifungal Spectra ID of the agent
.agent_name	String	Yes	The name of the agent
.comments	String	Yes	Sanford Guide editorial commentary (or null)

Example Response:

```
{
  "fungus": {
    "id": "",
    "fungus_id": 3,
    "fungus_name": "Aspergillus terreus",
    "recommendations": {
      "Recommended": {
        "id": "Recommended",
        "symbol": "++",
        "definition": "Agent is a first line therapy: reliably active...",
        "interactions": [
          {
            "agent": {
              "id": "4f4303b536c9803ee5c03585605c177d",
              "agent_id": 3,
              "agent_name": "Voriconazole"
            },
            "comments": null
          },
          ...
        ],
      },
      "Active": {
        "id": "Active",
        "symbol": "+",
        "definition": "Agent is a potential alternative agent...",
        "interactions": [
          {
            "agent": {
              "id": "66b15ef6d5fcc904815ddbfeafada43bb",
              "agent_id": 4,
              "agent_name": "Posaconazole"
            },
            "comments": null
          }
        ]
      },
      ...
    }
  }
}
```

Antiviral Spectra Recommendations Service (Agent)

The spectra recommendations service provides Antiviral Spectra data for a particular agent. This is a GET request leveraging Basic Authentication.

Request Parameters

Field Key	Value Type	Description
agent_id	Integer	The Antiviral Spectra ID of a given agent

Response Format

Field Key	Value Type	Always Appears	Description
agent	Object	Yes	The requested agent object
.id	String	Yes	The content ID of the agent (empty string if null)
.agent_id	Integer	Yes	The Antiviral Spectra ID of the agent
.agent_name	String	Yes	The name of the agent
.recommendations	Array	Yes	An array containing the agent's recommendation objects
[x]	Object	Yes	A recommendation object; X = recommendation id (see below)
[x].id	String	Yes	Recommendation text (Recommended, Active, etc.)
[x].symbol	String	Yes	The recommendation symbol (++, +, ±, etc.)
[x].definition	String	Yes	Sanford Guide editorial description of recommendation
[x].interactions	Array	Yes	An array containing the recommendation's interactions
.virus	Object	Yes	The virus associated with agent interaction
.id	String	Yes	The content ID of the virus (empty string if null)
.virus_id	Integer	Yes	The Antiviral Spectra ID of the virus
.virus_name	String	Yes	The name of the virus
.comments	String	Yes	Sanford Guide editorial commentary (or null)

Example Response:

```
{
  "agent": {
    "id": "73834cdb82a06c91981364a7c59c90a2",
    "agent_id": 30,
    "agent_name": "Cidofovir",
    "recommendations": {
      "Recommended": {
        "id": "Recommended",
        "symbol": "++",
        "definition": "Agent is a first line therapy: reliably active...",
        "interactions": [
          {
            "virus": {
              "id": "bfb812dfd3c74e5785a78cd9b7c97dcf",
              "virus_id": 4,
              "virus_name": "Cytomegalovirus"
            },
            "comments": null
          }
        ],
      },
    },
    "Active": {
      "id": "Active",
      "symbol": "+",
      "definition": "Agent is a potential alternative agent...",
      "interactions": [
        {
          "virus": {
            "id": "654c52b9b05394b9d6d1d7df1699be87",
            "virus_id": 1,
            "virus_name": "Adenovirus"
          },
          "comments": null
        },
        {
          "virus": {
            "id": "2901cc86fb52a95619ee230cbfc7767e",
            "virus_id": 2,
            "virus_name": "BK Virus"
          },
          "comments": null
        }
      ],
      ...
    ]
  },
  ...
}
```

Antiviral Spectra Recommendations Service (Virus)

The spectra recommendations service provides Antiviral Spectra data for a particular virus. This is a GET request leveraging Basic Authentication.

Request Parameters

Field Key	Value Type	Description
virus_id	Integer	The Antiviral Spectra ID of a given virus

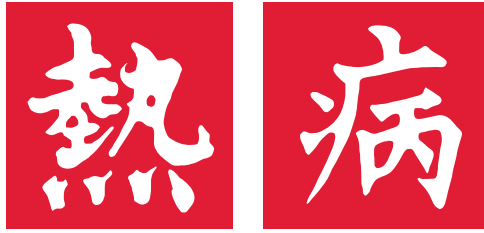
Response Format

Field Key	Value Type	Always Appears	Description
virus	Object	Yes	The requested virus object
.id	String	Yes	The content ID of the virus (empty string if null)
.virus_id	Integer	Yes	The Antiviral Spectra ID of the virus
.virus_name	String	Yes	The name of the virus
.recommendations	Array	Yes	An array containing the virus's recommendation objects
[x]	Object	Yes	A recommendation object; X = recommendation id (see below)
[x].id	String	Yes	Recommendation text (Recommended, Active, etc.)
[x].symbol	String	Yes	The recommendation symbol (++, +, ±, etc.)
[x].definition	String	Yes	Sanford Guide editorial description of recommendation
[x].interactions	Array	Yes	An array containing the recommendation's interactions
.agent	Object	Yes	The agent associated with virus interaction
.id	String	Yes	The content ID of the agent (empty string if null)
.agent_id	Integer	Yes	The Antiviral Spectra ID of the agent
.agent_name	String	Yes	The name of the agent
.comments	String	Yes	Sanford Guide editorial commentary (or null)

Example Response:

```
{
  "virus": {
    "id": "fec3971752e6015dcf7df7a5fa6b71aa",
    "virus_id": 12,
    "virus_name": "Smallpox",
    "recommendations": {
      "Recommended": {
        "id": "Recommended",
        "symbol": "+",
        "definition": "Agent is a first line therapy: reliably active...",
        "interactions": []
      },
      "Active": {
        "id": "Active",
        "symbol": "+",
        "definition": "Agent is a potential alternative agent...",
        "interactions": [
          {
            "agent": {
              "id": "73834cdb82a06c91981364a7c59c90a2",
              "agent_id": 30,
              "agent_name": "Cidofovir"
            },
            "comments": null
          },
          {
            "agent": {
              "id": "f5315670174b4b8ebdd6795168a088d7",
              "agent_id": 37,
              "agent_name": "Tecovirimat"
            },
            "comments": null
          }
        ],
        ...
      ]
    },
    ...
  }
}
```


SANFORD GUIDE



About our Company

Since 1969, Sanford Guide has been a leader in point-of-care recommendations for the treatment of infectious diseases. Content can be accessed through iOS & Android, our API, in EHRs, on the web, and in print. Widely used by pharmacists, physicians, physician assistants, microbiologists, and nurses, Sanford Guide helps to improve patient care by providing carefully curated recommendations based on the latest evidence. Content is updated on an ongoing basis by a team of leading infectious disease experts.

Fast Facts

- Providing accessible, concise, and reliable guidance since 1969
- Licensed for use in over 4,000 facilities worldwide
- Available via iOS, Android, API, and the Web

www.sanfordguide.com

SANFORD GUIDE



Antimicrobial Therapy, Inc.
PO Box 276
Sperryville, VA 22740 USA
+1 540-987-9480
contentapi@sanfordguide.com
www.sanfordguide.com