



# WebMD Ignite Education V3 API

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The WebMD Ignite Education Content V3 API is a RESTful API service that will support internal product design and delivery while also enabling clients and partners to access Ignite Education content to create dynamic and innovative consumer health engagement solutions.

**This documentation will be iterative as new services are added to the Ignite Education Content solution.**





## Ignite Education Content Basics

The API will only return the content resources associated with a client's license. Content is typically licensed by Source (HealthSheets, Ignite Education Clinical Videos, Exit-Writer Discharge Instructions).

**The v3 REST API content can be previewed in JSON, HTML, XML, and Text formats. The client or client vendor is solely responsible for all CSS and branding.**

Detailed tables in the Appendix provide detailed information about each content source, content type ID and associated metadata. One table includes information for a typical clinical license and use case; the second for a typical consumer license and use case. A third table provides detailed language codes by content (Appendix - page XX).

## Token and Endpoint URL

Below are the production URLs for tokens and endpoints. The client should use the URL per the REST API production credentials.

### Token URL:

Production URL: <https://identity.krames.com/connect/token>

### Endpoint URL

Production URL: <https://api.krames.com/>

## Content Variations

Each content resource has a variety of attributes. Some describe variants of a resource such as Version or Language. The Content ID does not change with these variants.

- Version (Same Content ID)
- Language (Same Content ID)

Content resources in different Media types (document or video) also have different Content IDs.

- Media (Different Content ID)

## Video content

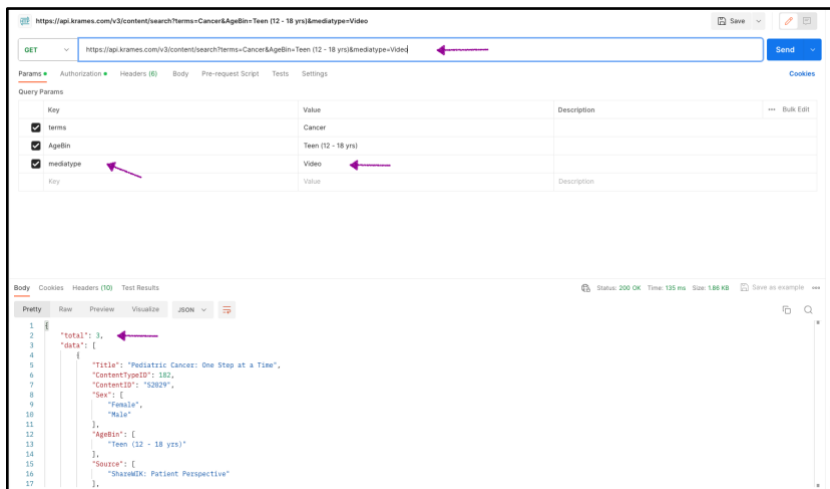
Videos: The request for the streaming media format includes the URL to the video in the content delivery network (CDN) and the video transcript. The URL can be used in the video player of the client's choice.

Video HealthSheet: Clients can use the Video HealthSheet to print information for a consumer or patient. The consumer can then scan the QR code or use the short link to access the video. If a client licenses both Videos and Video HealthSheets, both resources can be accessed through the API.

### Example of API request where mediatype = video:

[https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen \(12 - 18 yrs\)&mediatype=Video](https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen (12 - 18 yrs)&mediatype=Video)





Example of QR code video within client app or website:



## Content Versioning

A version key will be generated and returned in the JSON response when retrieving content. By default, the current content version will be returned via the API, when no version is specified. Search results do not contain version information; the search index always contains the latest version of the content.

### API Request to check the content version and API health:

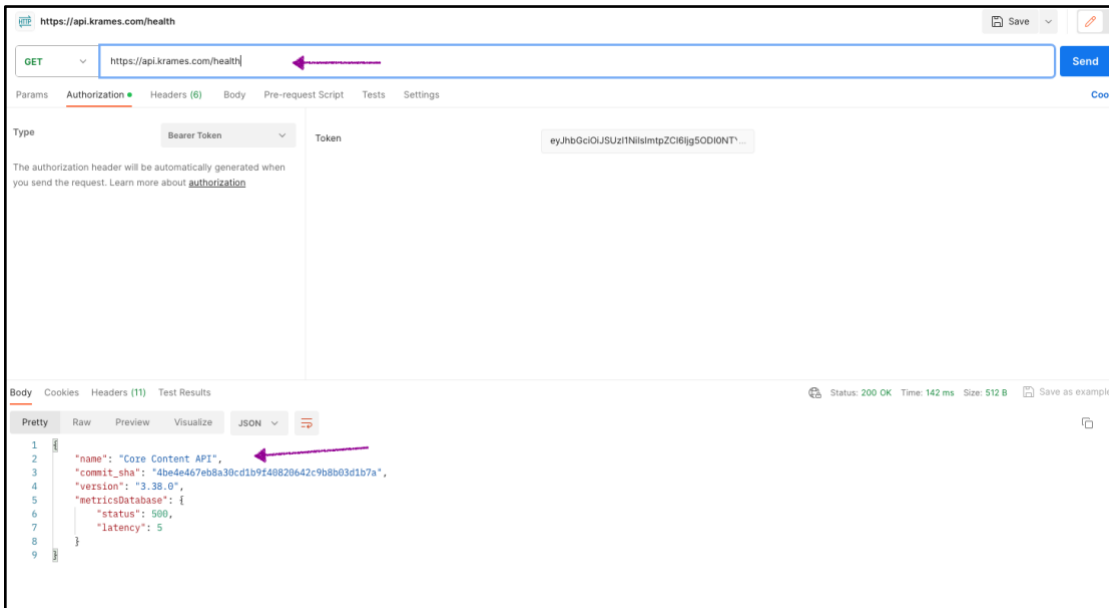
<https://api.krames.com/health>

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## Content Source

Ignite Education content is designed for two general use cases:

1. integration into a clinical application and workflow, and,
2. integration into a consumer-facing application.

Detailed tables in the Appendix provide an overview of the content resources available. Each content resource is identified by a Content Type ID (numeric code) and a Source which is the text description of the Content Type ID.

Note: The specific content sources available via the API is determined by a **client license**. If the content type is not included in the client license, it will not be returned through search or get content requests.

## Languages Supported

Language is a required attribute of any content item. All API endpoints utilize an HTTP `accepts-language` header, AND a querystring parameter for language, these will default to `en` if unspecified. The value of the query string parameter `language` will take precedence over the `accept-language` header.

This will pull all the English articles

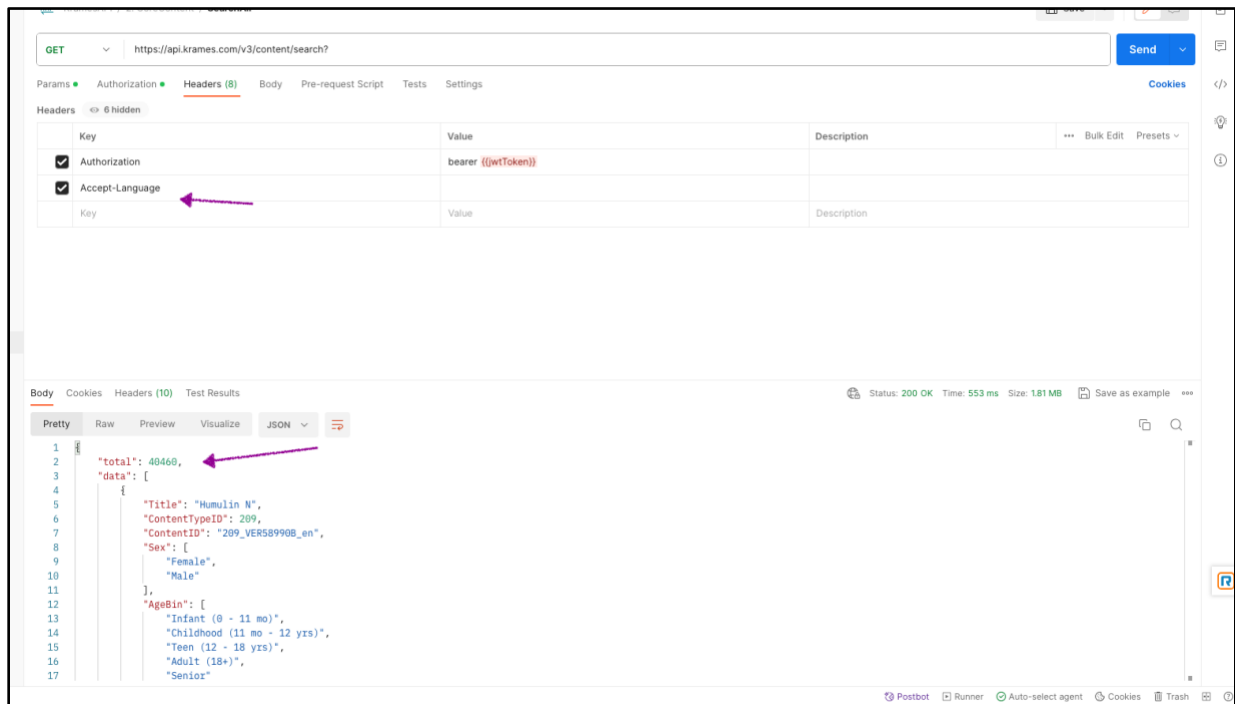
Accept-Language – en or blank, this will retrieve all the English articles under the license.

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GET https://api.krames.com/v3/content/search? Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Headers <> 6 hidden

Key	Value	Description	...	Bulk Edit	Presets
<input checked="" type="checkbox"/> Authorization	bearer {{jwtToken}}				
<input checked="" type="checkbox"/> Accept-Language					
Key	Value	Description			

Body Cookies Headers (10) Test Results Status: 200 OK Time: 553 ms Size: 1.81 MB Save as example

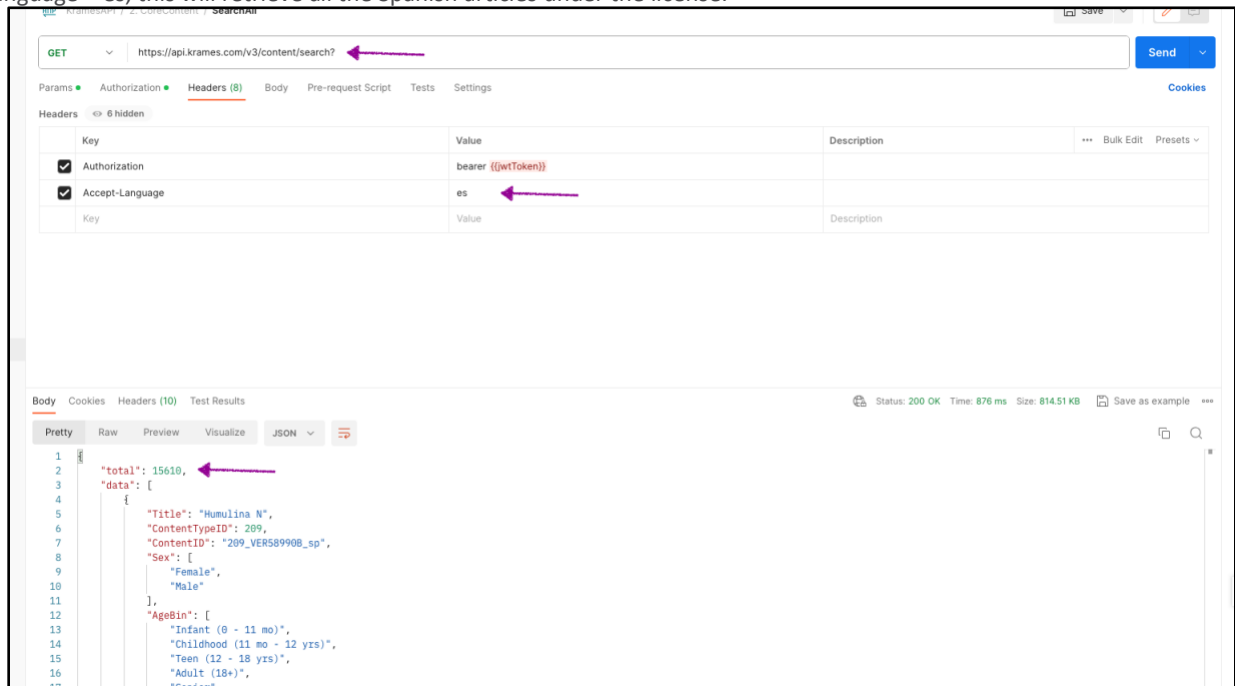
Pretty Raw Preview Visualize JSON

```

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
{
  "total": 40460,
  "data": [
    {
      "Title": "Humulin N",
      "ContentTypeID": 209,
      "ContentID": "209_VERS89908_en",
      "Sex": [
        "Female",
        "Male"
      ],
      "AgeBin": [
        "Infant (0 - 11 mo)",
        "Childhood (11 mo - 12 yrs)",
        "Teen (12 - 18 yrs)",
        "Adult (18+)",
        "Senior"
      ]
    }
  ]
}

```

Accept-Language – es, this will retrieve all the Spanish articles under the license.



GET https://api.krames.com/v3/content/search? Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Headers <> 6 hidden

Key	Value	Description	...	Bulk Edit	Presets
<input checked="" type="checkbox"/> Authorization	bearer {{jwtToken}}				
<input checked="" type="checkbox"/> Accept-Language	es				
Key	Value	Description			

Body Cookies Headers (10) Test Results Status: 200 OK Time: 876 ms Size: 814.51 KB Save as example

Pretty Raw Preview Visualize JSON

```

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
{
  "total": 15610,
  "data": [
    {
      "Title": "Humulina N",
      "ContentTypeID": 209,
      "ContentID": "209_VERS89908_sp",
      "Sex": [
        "Female",
        "Male"
      ],
      "AgeBin": [
        "Infant (0 - 11 mo)",
        "Childhood (11 mo - 12 yrs)",
        "Teen (12 - 18 yrs)",
        "Adult (18+)",
        "Senior"
      ]
    }
  ]
}

```

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https://api.krames.com/v3/content/82-116092en

GEThttps://api.krames.com/v3/content/82-116092enSend

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettingsCookies

Headers

6 hidden

Key	Value	Description
Authorization	bearer (JWTToken)	
Accept-Language	es	

BodyCookiesHeaders (8)Test ResultsStatus: 200 OKTime: 1776 msSize: 7.57 KBSave as example

PrettyRawPreviewVisualizeJSON

111"thumbnailId": null,

112"closedCaptions": null,

113"transcript": null

114},

115"body": "<h1>Intolerancia alimentaria</h1><p>Una reacción de sensibilidad a un alimento (intolerancia alimentaria) ocurre si usted come alimentos que su cuerpo no puede digerir bien. La intolerancia alimentaria suele confundirse con la alergia a los alimentos. A menudo, la intolerancia se debe a la falta de enzimas digestivas específicas que descomponen los alimentos. Sin embargo, puede haber otras razones por las que no tolera alimentos. No obstante, la intolerancia alimentaria no es una reacción alérgica. Una reacción alérgica es una respuesta del sistema inmunitario. En cambio, un ingrediente o sustancia del alimento provoca irritación en el sistema digestivo. </p><p>Los síntomas pueden comenzar dentro de algunas horas después de comer. Estos incluyen hinchazón, náuseas, vómitos, diarrea, cólicos</p><h2>Cuidados en el hogar</h2><p>Los síntomas son graves, haga reposo en su casa durante las próximas 24 horas. </p><p>No consuma tabaco ni alcohol ya que pueden empeorar los síntomas. </p><p>Comience una dieta de líquidos claros y beba pequeñas cantidades con frecuencia. Tome de seis a ocho vasos de líquidos al día para no deshidratarse. Estos pueden incluir agua, bebidas deportivas, refrescos sin cafeína, jugos, té y caldos. Retome de a poco su dieta habitual a medida que se sienta mejor. </p><p>En el futuro, evite los alimentos que causaron la reacción hoy. Si no está seguro de cuál alimento la causó y quiere saberlo, elimine todo alimento que le genere sospecha. Llevar un diario de alimentos puede ayudarlo a descifrar de cuál se trata. Añada los alimentos sospechosos a su dieta en pequeñas cantidades, uno por uno, hasta que la reacción ocurra de nuevo. </p><p>Seguimiento</p><p>Programa visitas de control con su proveedor de atención médica, o según las instrucciones, si no se siente mejor durante los próximos dos a tres días. </p><p>Cuándo llamar al <hotfield hotfieldid="">911</hotfield> </p><p>Llame al <hotfield hotfieldid="">911</hotfield> si tiene alguno de los siguientes síntomas: <p><p>Dificultad para respirar;</p><p>Confusión;</p><p>Somnolencia o problemas para despertarse;</p><p>Desmayo o pérdida del conocimiento;</p><p>Frecuencia cardíaca acelerada;</p><p>Vómitos con sangre o grandes cantidades de sangre en las heces;</p><p>Convulsiones.</p><p>Pérdida del conocimiento.</p><p>Cuándo buscar atención médica</p><p>Llame a su proveedor de atención médica de inmediato ante cualquiera de las siguientes situaciones: <p><p>Dolor fuerte y constante en el lado inferior derecho del abdomen;</p><p>Vómitos persistentes (no puede mantener los líquidos en el estómago);</p><p>Diarrea excesiva;</p><p>Sangre o mucosidad en la diarrea;</p><p>Debilidad o mareos.</p></p></ul></body>".

116"versions": [

117"20190905-224449"

118]

Table 3 in the Appendix provides an overview of the content and the languages supported. Ignite Education uses the ISO 639-1 Code standards for language abbreviations, and ISO 639-2 for languages that are unavailable in ISO 639-1.

When using the GET content endpoint, this language parameter will be used to retrieve the document in the language the parameter specifies, if it is available. When calling the Search endpoint with a language parameter in this way, this will search Ignite Education content that is available in that language. So, any terms present in a search performed in this manner will need to also be in the same language that was specified.

## Segmented Content

Segments have been defined for a small set of content assets from the Consumer Health Library. Within this content type, standard segments have been defined and can be identified. See Table 4 in the Appendix for detailed information.

## Endpoint Base URL

The content endpoints described below should use this base URL:

Production URL: https://api.krames.com/

Requests to these endpoints require authorization. Authorization should be sent in a header with the key “Authorization”, and the value should be “bearer <your token from the identity server>”.

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## Production environments

We recommend completing all development against the Ignite Education API in our production environment.

## Authentication

To retrieve a bearer token, an authorization request should be made to our identity server using:

<https://identity.krames.com/connect/token>

This authorization request has the following parameters: (Replace `client_id` and `client_secret` values with the values provided to you).

The screenshot shows a REST client interface with a POST request to `https://identity.krames.com/connect/token`. The request body is set to 'x-www-form-urlencoded' and contains the following parameters:

Key	Value	Description
<input checked="" type="checkbox"/> <code>client_id</code>	<code>[REDACTED]</code>	
<input checked="" type="checkbox"/> <code>client_secret</code>	<code>[REDACTED]</code>	
<input checked="" type="checkbox"/> <code>grant_type</code>	<code>client_credentials</code>	
<input checked="" type="checkbox"/> <code>scope</code>	<code>proxy_api.read</code>	

The response is a JSON object with the following structure:

```
1 {
2   "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpzZW50b3R5IiwiaWF0Ij0iMTY5MjE1MjE1IiwiaXNjaW50b3R5Ij0iIn0",
3   "expires_in": 3600,
4   "token_type": "Bearer",
5   "scope": "proxy_api.read"
6 }
```

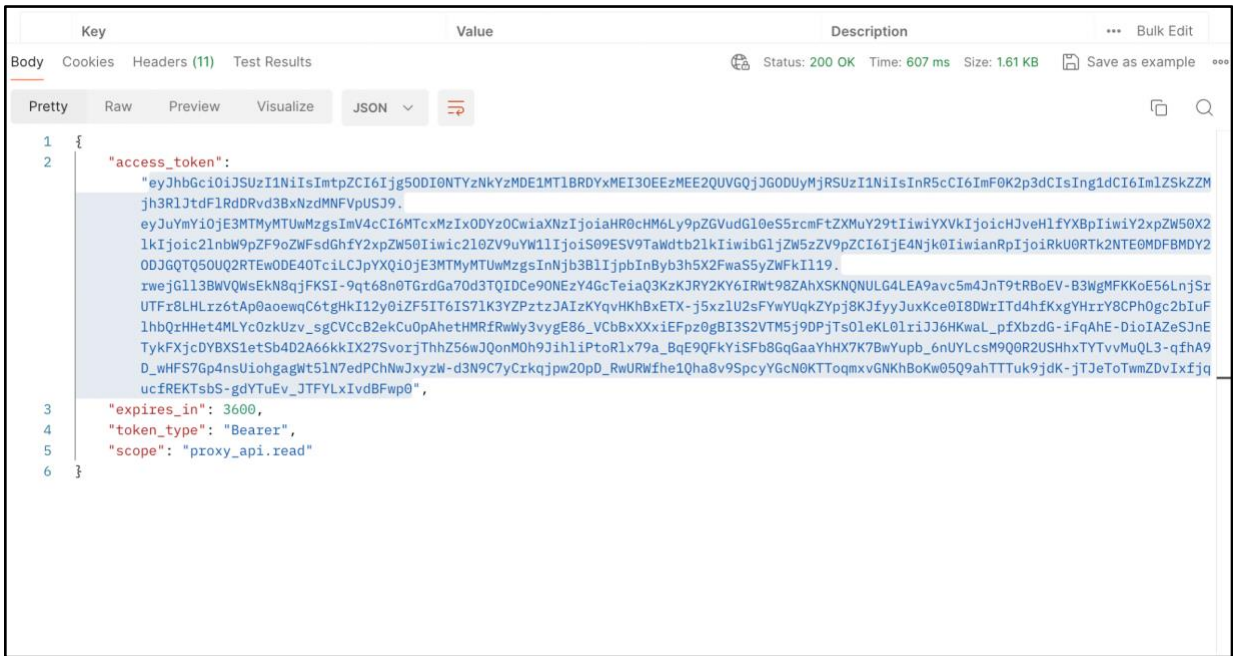
The authorization request will respond with JSON similar to:

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The screenshot shows the Krames API interface. The 'GET /collection' endpoint is selected. The 'Authorization' tab is active, showing a 'Bearer Token' type. A warning message is displayed: 'Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about variables'. The 'Token' field contains a long alphanumeric string. The 'Response' section is empty, with a button to 'Click Send to get a response'.



## ListLicensedContentTypes

Returns a distinct list of Content Types assigned to the client's license.

[https://api.krames.com/{client\\_name}/Content.svc/ListLicensedContentTypes](https://api.krames.com/{client_name}/Content.svc/ListLicensedContentTypes)

**client\_name** - This is the username for the API credentials. If it doesn't work with the username, please reach out to the Ignite Education team.

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `https://api.krames.com/{client_name}/Content.svc/ListLicensedContentTypes`
- Authorization:** Bearer Token with value `eyJhbGciOiJIUzI1NiIsImtpZCI6Ijg5ODI0NTY...`
- Status:** 200 OK, Time: 2.37 s, Size: 2.54 KB
- Response Body (XML):**

```
<?xml version="1.0" encoding="utf-8" ?>
<ContentTypeList>
  <ContentType Id="1" Name="Wellness Library" />
  <ContentType Id="3" Name="Healthsheets" />
  <ContentType Id="6" Name="Daily News Feed" />
  <ContentType Id="19" Name="Nutritional Supplement Advisor" />
  <ContentType Id="23" Name="About This Site" />
  <ContentType Id="30" Name="Recipes" />
  <ContentType Id="34" Name="Cancer Source" />
  <ContentType Id="35" Name="Cancer FAQs" />
  <ContentType Id="40" Name="Quizzes" />
  <ContentType Id="41" Name="Calculators" />
  <ContentType Id="42" Name="MRAs" />
  <ContentType Id="43" Name="Prevention Planner" />
  <ContentType Id="56" Name="Disease Management" />
</ContentTypeList>
```

## ListLicenseUpdates

Return a list of content that has been added to or deleted from a license, and licensed content that was updated, after a given date.

[https://api.krames.com/{client\\_name}/Content.svc/ListLicenseUpdates?xmlRequest=<LicenseUpdateRequest StartDate="2024-02-15" IncludeBlocked="false" />](https://api.krames.com/{client_name}/Content.svc/ListLicenseUpdates?xmlRequest=<LicenseUpdateRequest StartDate=)

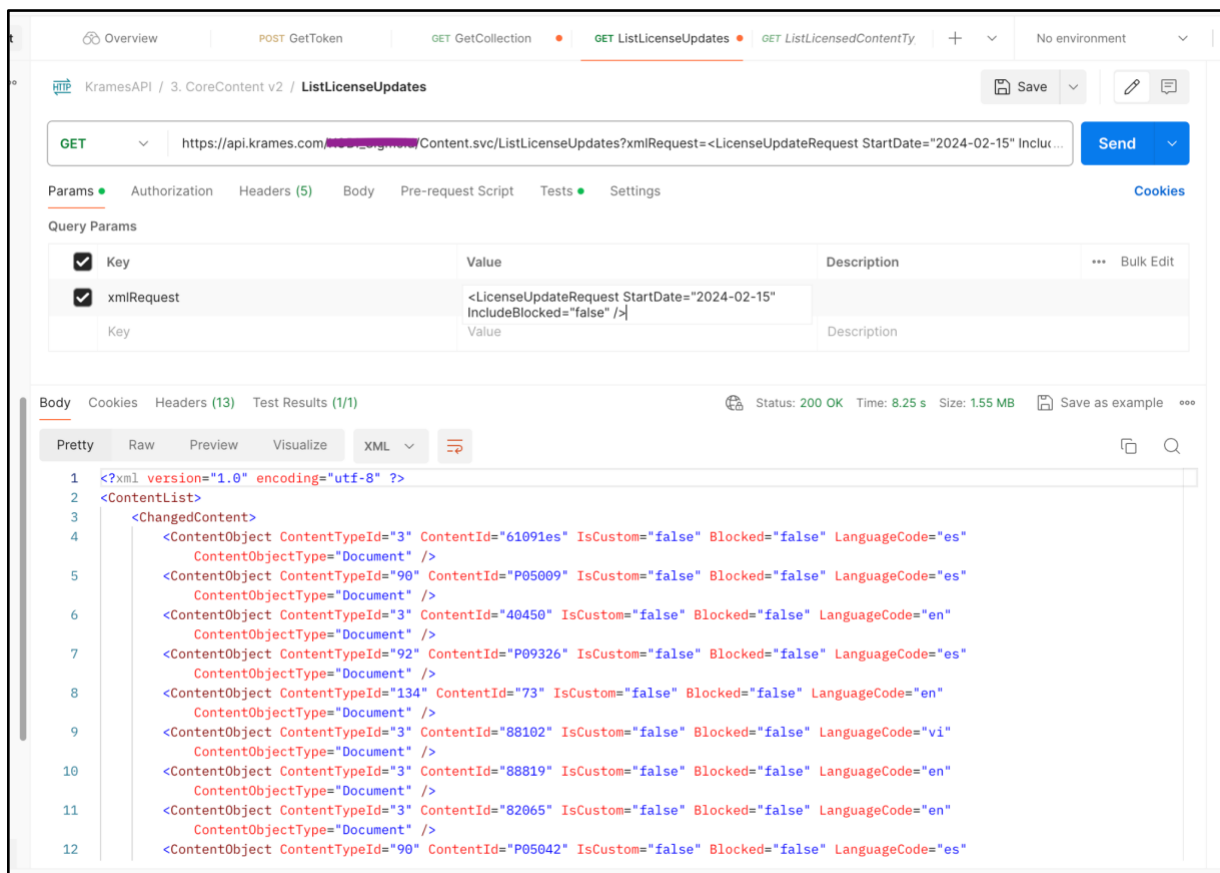
**client\_name** - This is the username for the API credentials. If it doesn't work with the username, please reach out to the Ignite Education team.

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## Browse-based navigation

There are two categorization options when building browser-based navigation with Ignite Education content.

**Serviceline Hierarchy:** Servicelines are a type of metadata applied to content. It Defines the clinical service line and organizes resources into a browsable hierarchy.

- Contains up to 3 hierarchical levels. For example,
  - Adult
  - Adult\Asthma
  - Adult\Asthma\Asthma
  - Adult\Asthma\Asthma, Attack
  - Adult\Asthma\Asthma, Exercise
  - Pediatrics
  - Pediatrics\Adolescent Medicine
  - Pediatrics\Adolescent Medicine\Eating Disorders
  - Pediatrics\Adolescent Medicine\Growth And Development
  - Pediatrics\Adolescent Medicine\Safety,Firearms

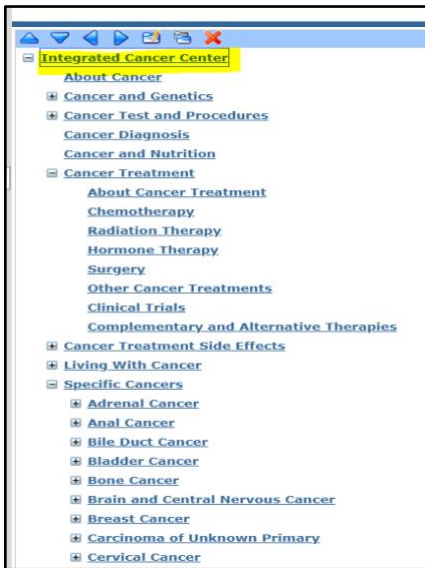
**Collection Hierarchy:** Collections are groups of content that can be licensed for client use. It defines groupings of content resources based on some legacy WebMD Ignite content sources. This can also be used to mimic the structure of the consumer health library.

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## Serviceline Hierarchy

There is a single endpoint that can be used to retrieve the Serviceline hierarchy from the API; this endpoint will return all 3 levels of the hierarchy in JSON format.

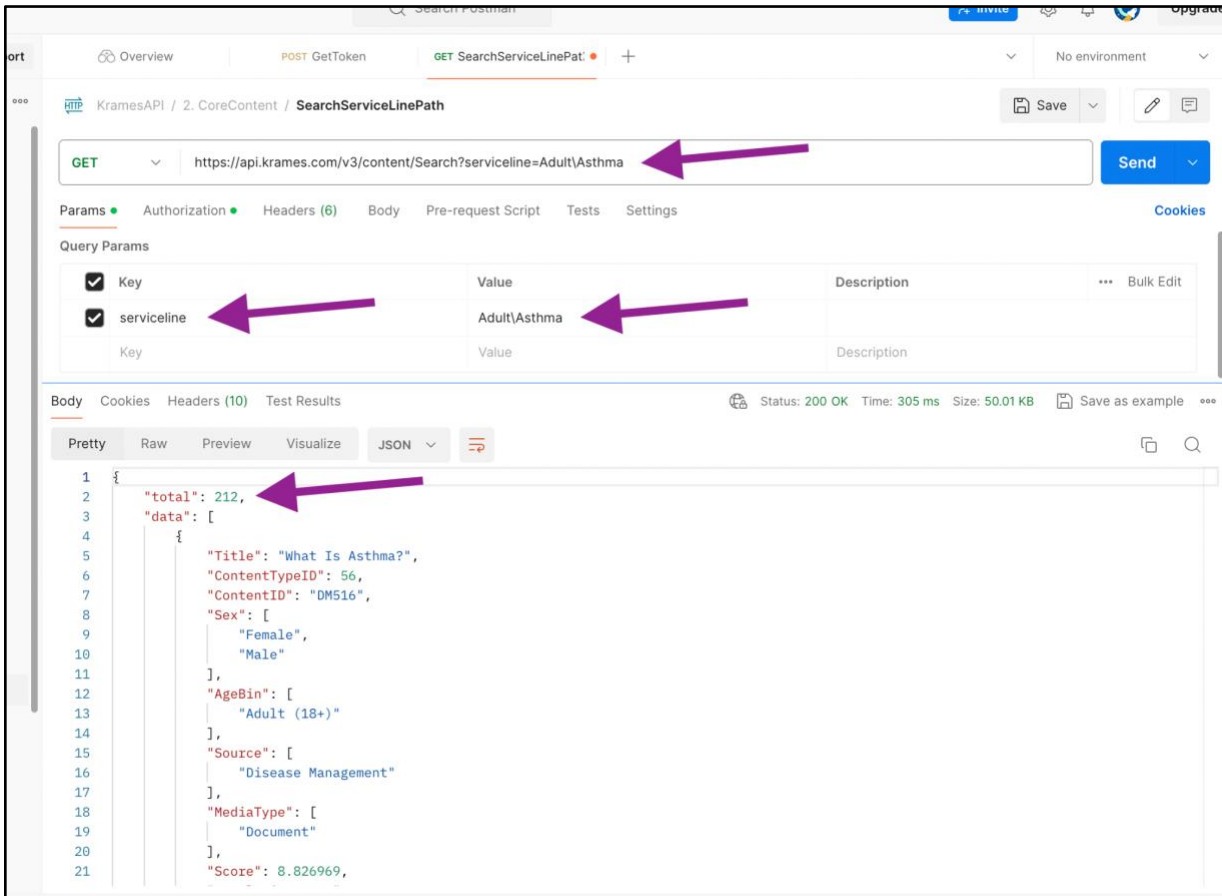
When utilizing this hierarchy information using the search endpoint to retrieve documents that belong to a particular node in the hierarchy, you should pass the path attribute of the node to the search using the `serviceline` parameter.

Example: To retrieve all the documents located in the `Adult\Asthma` node, I would pass that path to the search like this:

### Serviceline Path

GET `/v3/content/Search?serviceline=Adult\Adolescent%20Medicine`





GET https://api.krames.com/v3/content/Search?serviceline=AdultAsthma

Params: Authorization, Headers (6), Body, Pre-request Script, Tests, Settings

Query Params

Key	Value	Description
serviceline	AdultAsthma	

Body: Cookies, Headers (10), Test Results

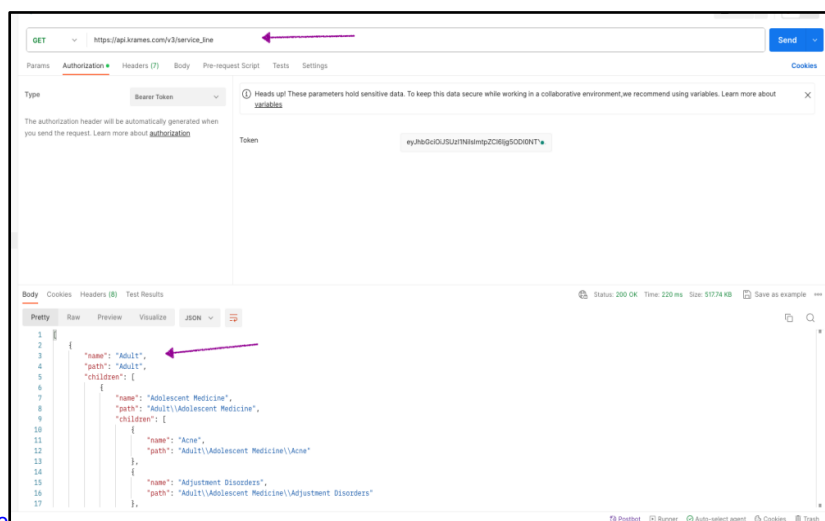
Status: 200 OK, Time: 305 ms, Size: 50.01 KB

```

1 {
2   "total": 212,
3   "data": [
4     {
5       "Title": "What Is Asthma?",
6       "ContentTypeID": 56,
7       "ContentID": "DM516",
8       "Sex": [
9         "Female",
10        "Male"
11      ],
12      "AgeBin": [
13        "Adult (18+)"
14      ],
15      "Source": [
16        "Disease Management"
17      ],
18      "MediaType": [
19        "Document"
20      ],
21      "Score": 8.826969,

```

## Serviceline:



GET https://api.krames.com/v3/service\_line

Params: Authorization, Headers (7), Body, Pre-request Script, Tests, Settings

Type: Search Token

Token: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXLTJ0IiwiaWF0IjoiMTY5MjQ0MDQ0In0=

Body: Cookies, Headers (8), Test Results

Status: 200 OK, Time: 220 ms, Size: 517.74 KB

```

1 {
2   "name": "Adult",
3   "path": "Adult",
4   "children": [
5     {
6       "name": "Adolescent Medicine",
7       "path": "Adult\\Adolescent Medicine",
8       "children": [
9         {
10          "name": "Acne",
11          "path": "Adult\\Adolescent Medicine\\Acne"
12        },
13        {
14          "name": "Adjustment Disorders",
15          "path": "Adult\\Adolescent Medicine\\Adjustment Disorders"
16        }
17      ]
18     }
19   ]
20 }

```

[https://api.krames.com/v3/service\\_line](https://api.krames.com/v3/service_line)

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NOTE: Path values in JSON may need to be unescaped.

Please see the below screenshot for the API request to retrieve serviceline in JSON format

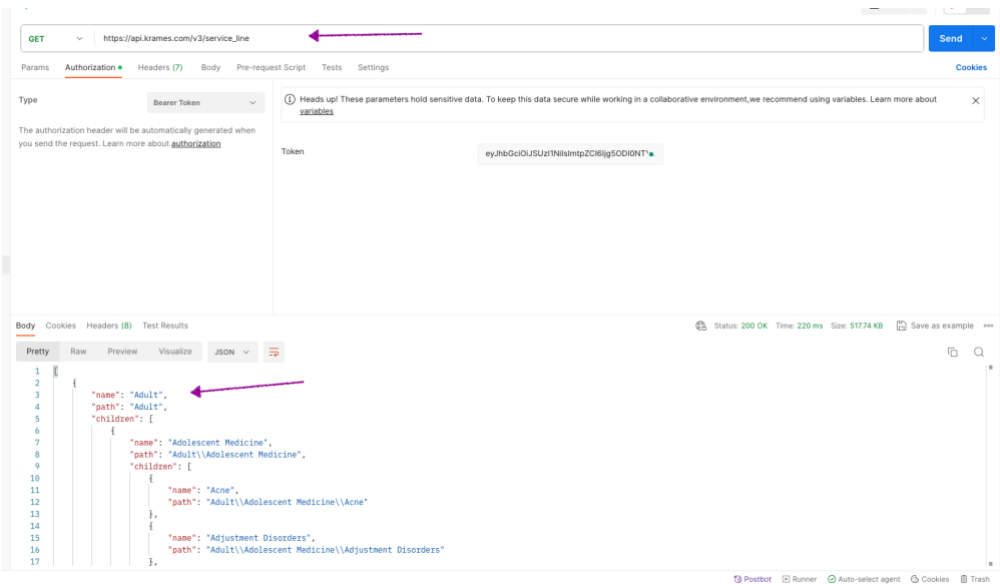
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## Technical Specifications

Resource - GET	<a href="https://api.krames.com/v3/service_line">https://api.krames.com/v3/service_line</a>
Description	An API endpoint that returns the entire serviceline hierarchy in JSON format.
POSTMAN - API Request	 <pre> 1 { 2   { 3     "name": "Adult", 4     "path": "Adult", 5     "children": [ 6       { 7         "name": "Adolescent Medicine", 8         "path": "Adult\\Adolescent Medicine", 9         "children": [ 10          { 11            "name": "Acne", 12            "path": "Adult\\Adolescent Medicine\\Acne" 13          }, 14          { 15            "name": "Adjustment Disorders", 16            "path": "Adult\\Adolescent Medicine\\Adjustment Disorders" 17          } 18        ] 19      } 20     ] 21   } 22 }</pre>
Parameters	This endpoint has no parameters.





## Return Values

200 Success

```
[
  {
    "name": "Adult",
    "path": "Adult",
    "children": [
      {
        "name": "Adolescent Medicine",
        "path": "Adult\\Adolescent Medicine",
        "children": [
          {
            "name": "Acne",
            "path": "Adult\\Adolescent Medicine\\Acne"
          },
          {
            "name": "Adjustment Disorders",
            "path": "Adult\\Adolescent Medicine\\Adjustment Disorders"
          },
          {
            "name": "Adolescent Medicine",
            "path": "Adult\\Adolescent Medicine\\Adolescent Medicine"
          },
          ...
        ]
      },
      ...
    ]
  }
]
```

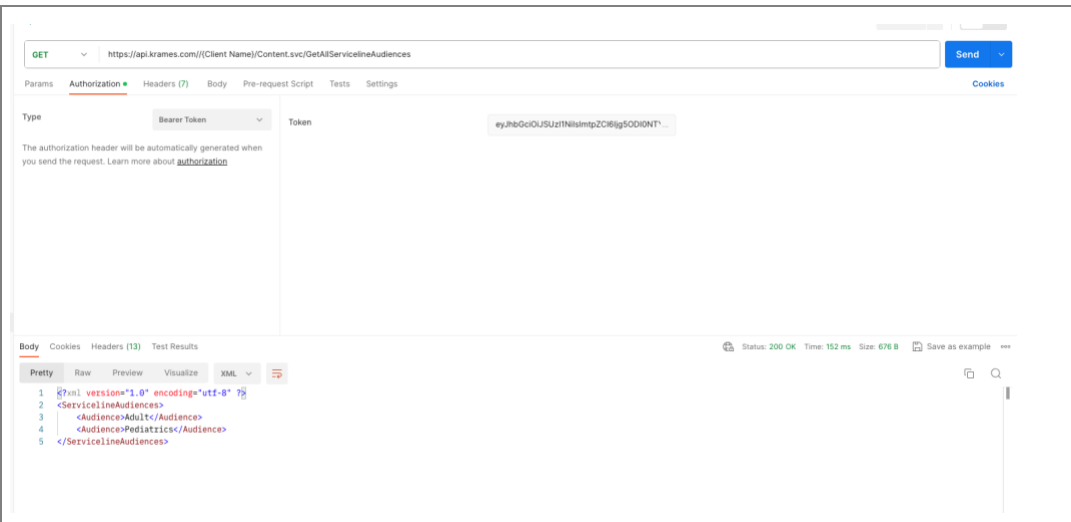
## Resource - GET

<https://api.krames.com/{Client Name}/Content.svc/GetAllServiceLineAudiences>

## Description

An API endpoint that returns the main folders under a serviceline in JSON format.



<b>POSTMAN - API Request</b>	
<b>Parameters</b>	This endpoint has no parameters.
<b>Return Values</b>	<pre>&lt;?xml version="1.0" encoding="utf-8" ?&gt; &lt;ServiceLineAudiences&gt;   &lt;Audience&gt;Adult&lt;/Audience&gt;   &lt;Audience&gt;Pediatrics&lt;/Audience&gt; &lt;/ServiceLineAudiences&gt;</pre>

## Collection Hierarchies

There are two endpoints that can be used to retrieve the Collection hierarchies from the API. One is for retrieving the top-level Collections in JSON format, and the second is for retrieving the details of that collection (full collection hierarchy) in JSON format.

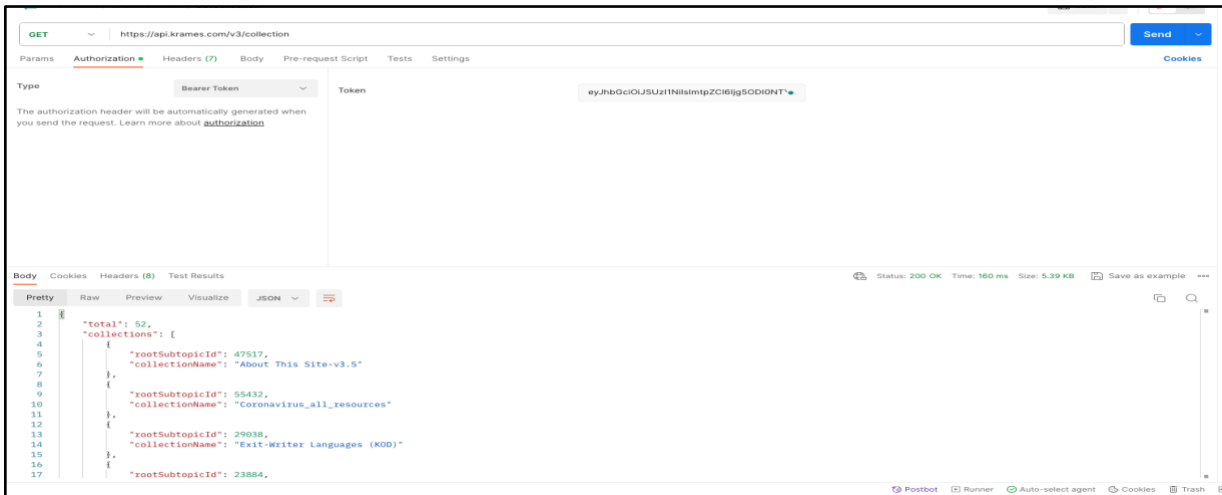
Use the search endpoint to retrieve documents that belong to a particular node in the hierarchy, construct a path using the names of the nodes in the hierarchy path you want to retrieve documents for, and pass that path to the search using the `collectionPath` parameter.

There are two types of collection: Standard Collection and Dynamic Collection

**Standard Collection:** Can contain multiple content types and are broken down into subtopics

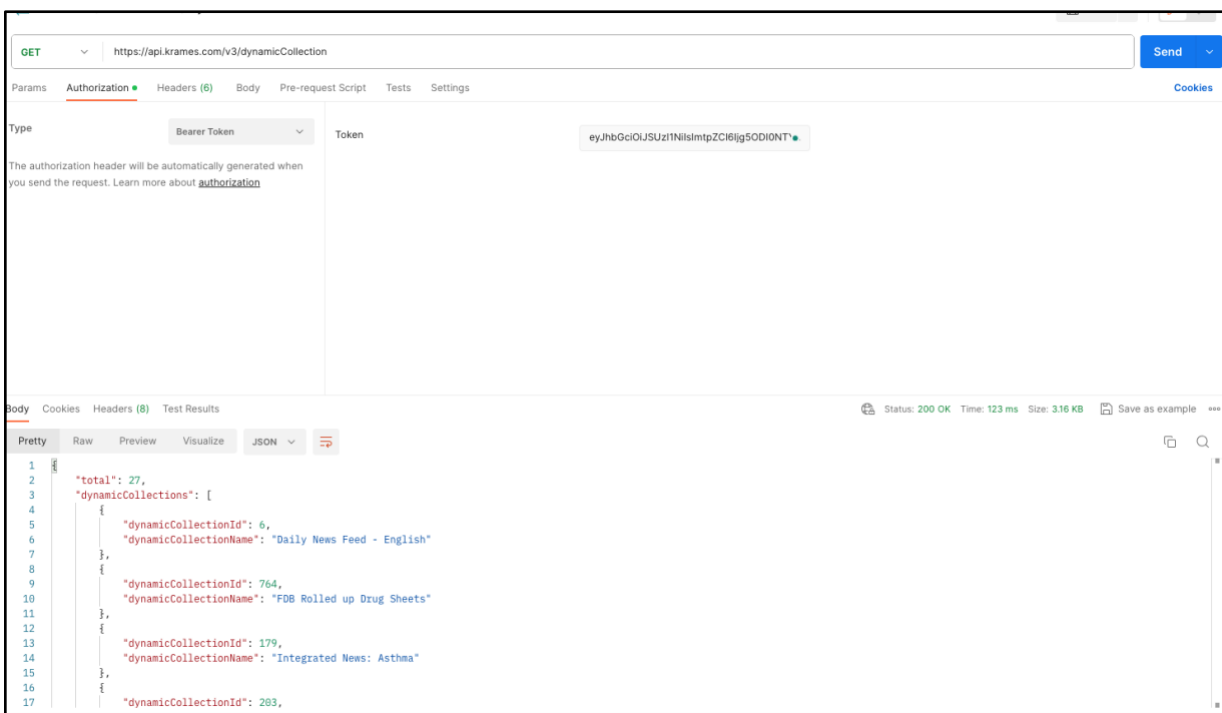
**GET - <https://api.krames.com/v3/collection>**





**Dynamic Collection:** It contains only one type of content, like 138 for Videos, or 203 - contentTypeID) for ASHP Drug Sheets, or 6 for HealthDay News. They are automatically updated when new content is added.

**GET - <https://api.krames.com/v3/dynamicCollection>**



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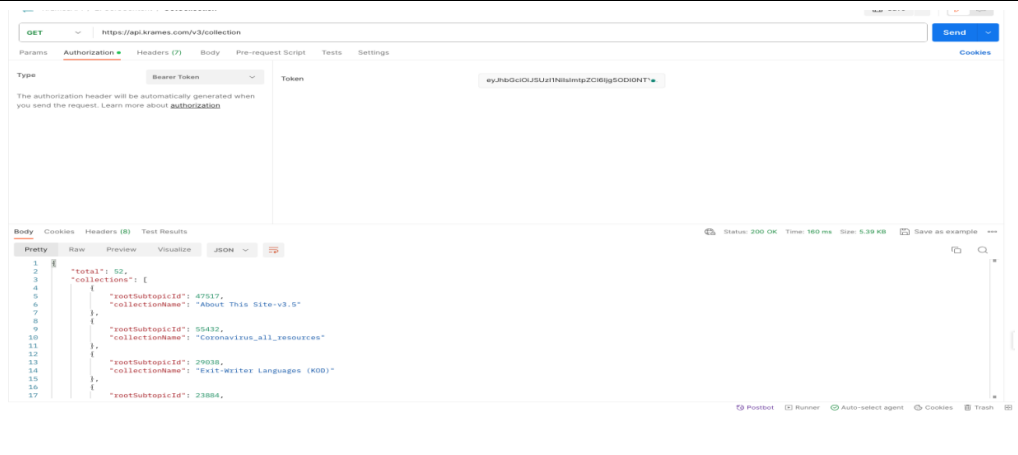


Example: To retrieve all the documents/articles located in the Exit-WriterED\Diagnosis\Allergy node, use the following type of request:  
**GET**

https://api.krames.com/v3/content/search?collectionPath=ExitWriterED\Diagnosis\Allergy

NOTE: Path values in JSON may need to be unescaped.

Please see the screenshot below for this API request.

Resource	GET - https://api.krames.com/v3/collection
Description	Retrieves the collections that are available in your license in JSON format.
POSTMAN - API Call	
Parameters	None
Return Values	<div>200 Success</div> <pre>{   "total": 58,   "collections": [     {       "rootSubtopicId": 47517,       "collectionName": "About This Site-v3.5"     },     {       "rootSubtopicId": 55432,       "collectionName": "Coronavirus_all_resources"     },     {       "rootSubtopicId": 29030,       "collectionName": "Exit-Writer Languages (K00)"     },     {       "rootSubtopicId": 23884,       ...     }   ] }</pre>



```

    },
  }
  500
  {
    errors: [<String>]
  }

```

## Resource

GET <https://api.krames.com/v3/collection/{subtopicId}>

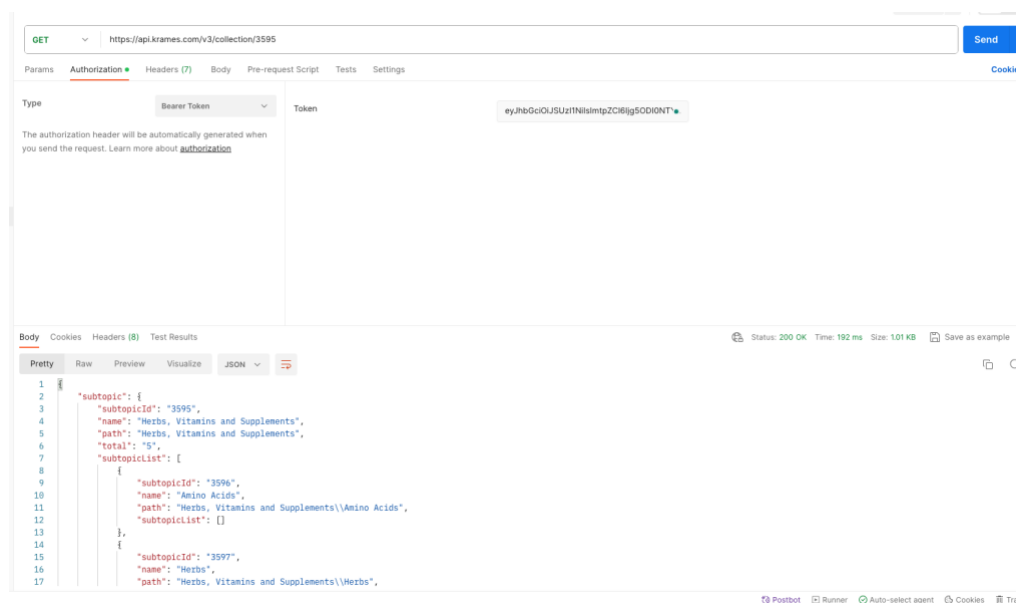
## Description

Retrieves the collections that are available subtopicid under a collection in your license

## Parameters

subtopicid: one of the rootSubtopicIds from the call to the /v3/collection endpoint.

## POSTMAN - API Call



The screenshot shows a Postman API client interface. The request is a GET to `https://api.krames.com/v3/collection/3595`. The authorization is set to Bearer Token with the token `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXLTZlZSIsImN1b2UiOiJlZSIsImVudCI6IjUifQ`. The response is a 200 OK status with a response time of 192 ms and a size of 1.01 KB. The response body is a JSON object:

```

{
  "subtopic": {
    "subtopicId": "3595",
    "name": "Herbs, Vitamins and Supplements",
    "path": "Herbs, Vitamins and Supplements",
    "total": "5",
    "subtopicList": [
      {
        "subtopicId": "3596",
        "name": "Amino Acids",
        "path": "Herbs, Vitamins and Supplements\\Amino Acids",
        "subtopicList": []
      },
      {
        "subtopicId": "3597",
        "name": "Herbs",
        "path": "Herbs, Vitamins and Supplements\\Herbs",
        "subtopicList": []
      }
    ]
  }
}

```

## Return Values

```

200 Success
{
  "subtopic": {
    "subtopicId": "3595",
    "name": "Herbs, Vitamins and Supplements",
    "path": "Herbs, Vitamins and Supplements",
    "total": "5",
    "subtopicList": [
      {

```



```

      "subtopicId": "3596",
      "name": "Amino Acids",
      "path": "Herbs, Vitamins and Supplements\\Amino Acids",
      "subtopicList": []
    },
    ...
  ]
}
500
{
  errors: [<String>]
}

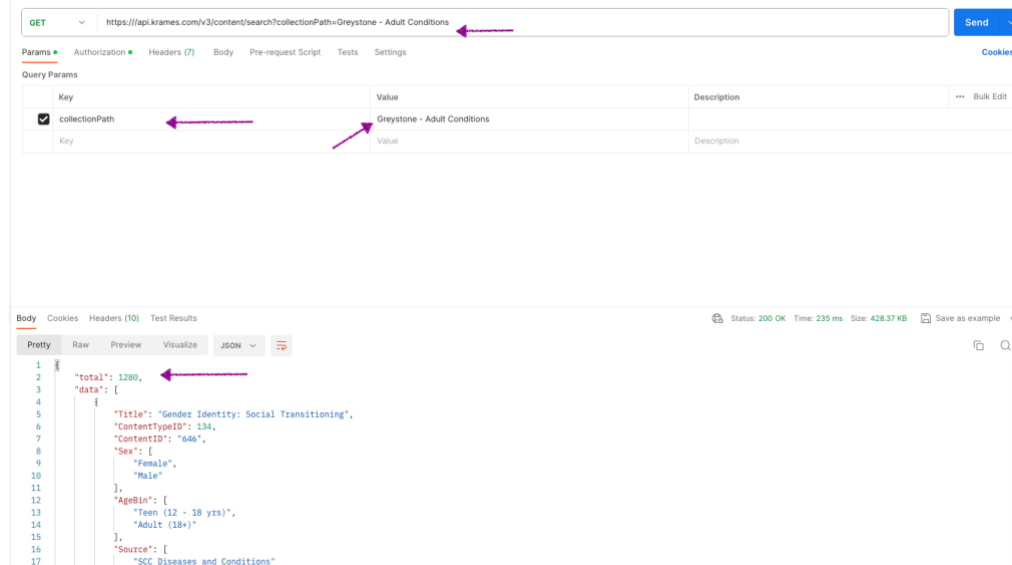
```

**Resource** [GET https://api.krames.com/v3/content/search?collectionPath={{collectionPath}}](https://api.krames.com/v3/content/search?collectionPath={{collectionPath}})

**Description** An API endpoint that returns the entire number of articles under a Collection hierarchy in JSON format in your license.

**Parameters** [{{collectionPath}}](#)

### POSTMAN - API Request



```

1 {
2   "total": 1280,
3   "data": [
4     {
5       "Title": "Gender Identity: Social Transitioning",
6       "ContentTypeID": 134,
7       "ContentID": "646",
8       "Sex": [
9         "Female",
10        "Male"
11      ],
12      "AgeBin": [
13        "Teen (12 - 18 yrs)",
14        "Adult (18+)"
15      ],
16      "Source": [
17        "SCC Diseases and Conditions"
18      ]
19    }
20  ]
21 }

```

**Return Values** 200 Success

```
[
  {

```



```

"total": 11,
"data": [
  {
    "Title": "Food Sensitivity",
    "ContentTypeID": 82,
    "ContentID": "116092en",
    "Sex": [
      "Female",
      "Male"
    ],
    "AgeBin": [
      "Infant (0 - 11 mo)",
      "Childhood (11 mo - 12 yrs)",
      "Teen (12 - 18 yrs)",
      "Adult (18+)",
      "Senior"
    ],
    "Source": [
      "Exit Writer Discharge Instructions"
    ],
    "MediaType": [
      "Document"
    ],
    "Score": 9.780883,
    "PopularityScore": 0
  },
  {
    "Title": "Anaphylaxis",
    "ContentTypeID": 82,
    "ContentID": "115719en",
    "Sex": [
      "Female",
      "Male"
    ],
  },

```



```

    "AgeBin": [
      "Teen (12 - 18 yrs)",
      "Adult (18+)",
      "Senior"
    ],
    "Source": [
      "Exit Writer Discharge Instructions"
    ],
    "MediaType": [
      "Document"
    ],
    "Score": 9.179846,
    "PopularityScore": 0
  },
  ...
]
500
{
  errors: [<String>]
}
}

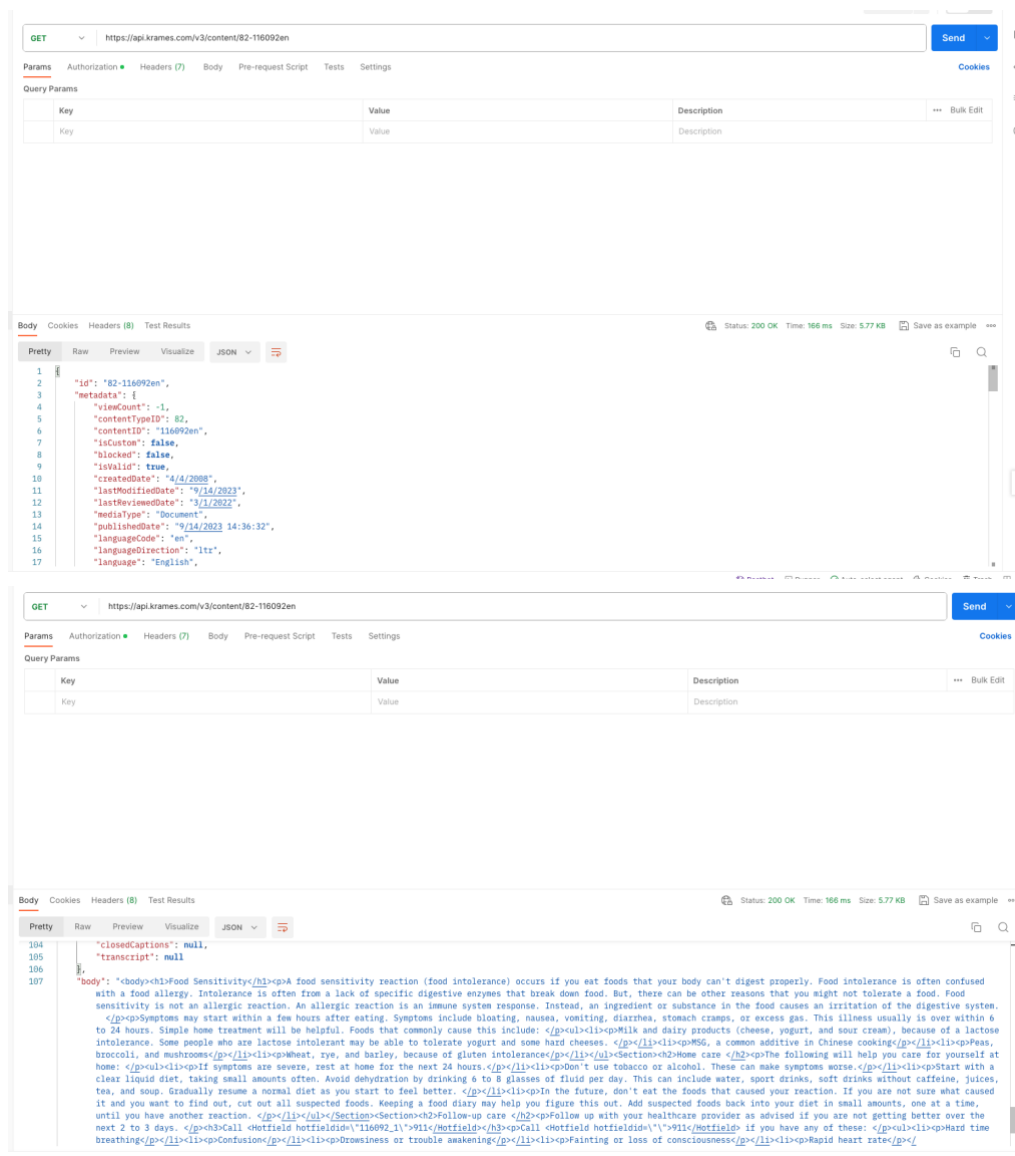
```

Resource	GET <a href="https://api.krames.com/v3/content/82-116092en">https://api.krames.com/v3/content/82-116092en</a>
Description	An API endpoint that returns the specific articles under a collection in JSON format.
Parameters	None





## POSTMAN - API Request



GET https://api.krames.com/v3/content/82-116092en

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description
Key	Value	Description

Body Cookies Headers (8) Test Results

Status: 200 OK Time: 166 ms Size: 5.77 KB Save as example

Pretty Raw Preview Visualize JSON

```

1 {
2   "id": "82-116092en",
3   "metadata": {
4     "viewCount": -1,
5     "contentTypeID": 82,
6     "contentID": "116092en",
7     "isCustom": false,
8     "blocked": false,
9     "isValid": true,
10    "createdDate": "4/4/2008",
11    "lastModifiedDate": "9/14/2023",
12    "lastReviewedDate": "3/1/2022",
13    "mediaType": "Document",
14    "publishedDate": "9/14/2023 14:36:32",
15    "languageCode": "en",
16    "languageDirection": "ltr",
17    "language": "English",

```

GET https://api.krames.com/v3/content/82-116092en

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description
Key	Value	Description

Body Cookies Headers (8) Test Results

Status: 200 OK Time: 166 ms Size: 5.77 KB Save as example

Pretty Raw Preview Visualize JSON

```

104 "closedCaptions": null,
105 "transcript": null
106 }
107 "body": "<body><h1>Food Sensitivity</h1><p>A food sensitivity reaction (food intolerance) occurs if you eat foods that your body can't digest properly. Food intolerance is often confused with a food allergy. Intolerance is often from a lack of specific digestive enzymes that break down food. But, there can be other reasons that you might not tolerate a food. Food sensitivity is not an allergic reaction. An allergic reaction is an immune system response. Instead, an ingredient or substance in the food causes an irritation of the digestive system. </p><p>Symptoms may start within a few hours after eating. Symptoms include bloating, nausea, vomiting, diarrhea, stomach cramps, or excess gas. This illness usually is over within 6 to 24 hours. Simple home treatment will be helpful. Foods that commonly cause this include: </p><ul><li><p>Milk and dairy products (cheese, yogurt, and sour cream), because of a lactose intolerance. Some people who are lactose intolerant may be able to tolerate yogurt and some hard cheeses. </p></li><li><p>MSG, a common additive in Chinese cooking</p></li><li><p>Peas, broccoli, and mushrooms</p></li><li><p>Wheat, rye, and barley, because of gluten intolerance</p></li></ul><Section><h2>Home care</h2><p>The following will help you care for yourself at home: </p><ul><li><p>If symptoms are severe, rest at home for the next 24 hours.</p></li><li><p>Don't use tobacco or alcohol. These can make symptoms worse.</p></li><li><p>Start with a clear liquid diet, taking small amounts often. Avoid dehydration by drinking 6 to 8 glasses of fluid per day. This can include water, sport drinks, soft drinks without caffeine, juices, tea, and soup. Gradually resume a normal diet as you start to feel better. </p></li><li><p>In the future, don't eat the foods that caused your reaction. If you are not sure what caused it and you want to find out, cut out all suspected foods. Keeping a food diary may help you figure this out. Add suspected foods back into your diet in small amounts, one at a time, until you have another reaction. </p></li></ul><Section><h2>Follow-up care</h2><p>Follow up with your healthcare provider as advised if you are not getting better over the next 2 to 3 days. </p><h3>Call</h3><div>Hotfield hotfieldid="116092,1">911</div><h3>Call</h3><div>Hotfield hotfieldid="116092,1">911</div> if you have any of these: </p><ul><li><p>Hard time breathing</p></li><li><p>Confusion</p></li><li><p>Drowsiness or trouble awakening</p></li><li><p>Fainting or loss of consciousness</p></li><li><p>Rapid heart rate</p></li></ul>

```

## Return Values

200 Success

```

[
  {
    "id": "82-116092en",
    "metadata": {
      "viewCount": 1,
      "contentTypeID": 82,

```



```

"contentID": "116092en",
"isCustom": false,
"blocked": false,
"isValid": true,
"createdDate": "4/4/2008",
"lastModifiedDate": "3/5/2022",
"lastReviewedDate": "3/1/2022",
"mediaType": "Document",
"publishedDate": "3/5/2022 19:31:00",
"languageCode": "en",
"languageDirection": "ltr",
"language": "English",
"regularTitle": "Food Sensitivity",
"nativeLanguageTitle": "Food Sensitivity",
"invertedTitle": "",
"blurb": "<p>A food sensitivity reaction (food intolerance) occurs if you eat foods that your body cannot digest properly. Food intolerance is often confused with a food allergy. Intolerance is from a lack of specific digestive enzymes. However, this is not an allergic reaction. Read on to learn more. </p>",
"keywords": [
  ...,
  ...
]
500
{
  errors: [<String>]
}

```

Resource	GET <a href="https://api.krames.com/v3/content/82-116092en">https://api.krames.com/v3/content/82-116092en</a>
Description	An API endpoint that returns the specific articles under a collection in JSON format for a Spanish article

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Header	Accept-Language - es
Return Values	<div>200 Success</div> <div>[   {     "id": "82-116092en",     "metadata": {       "viewCount": 1,       "contentTypeID": 82,       "contentID": "116092en",       "isCustom": false,       "blocked": false,       "isValid": true,       "createdDate": "4/4/2008",       "lastModifiedDate": "3/5/2022",       "lastReviewedDate": "3/1/2022",       "mediaType": "Document",       "publishedDate": "3/5/2022 19:31:00",       "languageCode": "en",       "languageDirection": "ltr",       "language": "English",       "regularTitle": "Food Sensitivity",       "nativeLanguageTitle": "Food Sensitivity",       "invertedTitle": "",       "blurb": "&lt;p&gt;A food sensitivity reaction (food intolerance) occurs if you eat foods that your body cannot digest properly. Food intolerance is often confused with a food allergy. Intolerance is from a lack of specific digestive enzymes. However, this is not an allergic reaction. Read on to learn more. &lt;/p&gt;",       "keywords": [         },         ...       ]     }   ] 500 {</div>



```
errors: [<String>]
```

```
}
```

```
}
```

## Search Content

### Two search options: Term and Aggregates

All Ignite Education content is tagged with metadata. The metadata is a list of key/value pairs. See the table above for the metadata associated with each content type.

#### Term Search

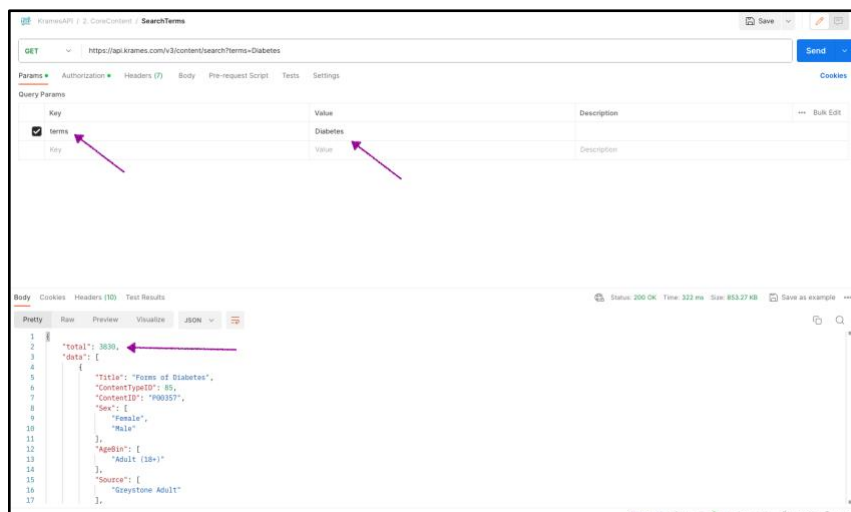
Searching by terms uses a full-text search over text fields like Title, Body, and Keywords. The Term search uses stemming, partial word matching, and synonyms.

#### Terms Search Examples for Query Parameters:

1. terms = Diabetes

There are 1982 articles for this license that contain the term diabetes in the Title, body, and keywords.

<https://api.krames.com /v3/content/search?terms=Diabetes>



2. terms = Breast Cancer

There are 299 articles for this license which consist of the term Breast Cancer in Title, body and keywords.

Query Parameters:

terms = Breast Cancer

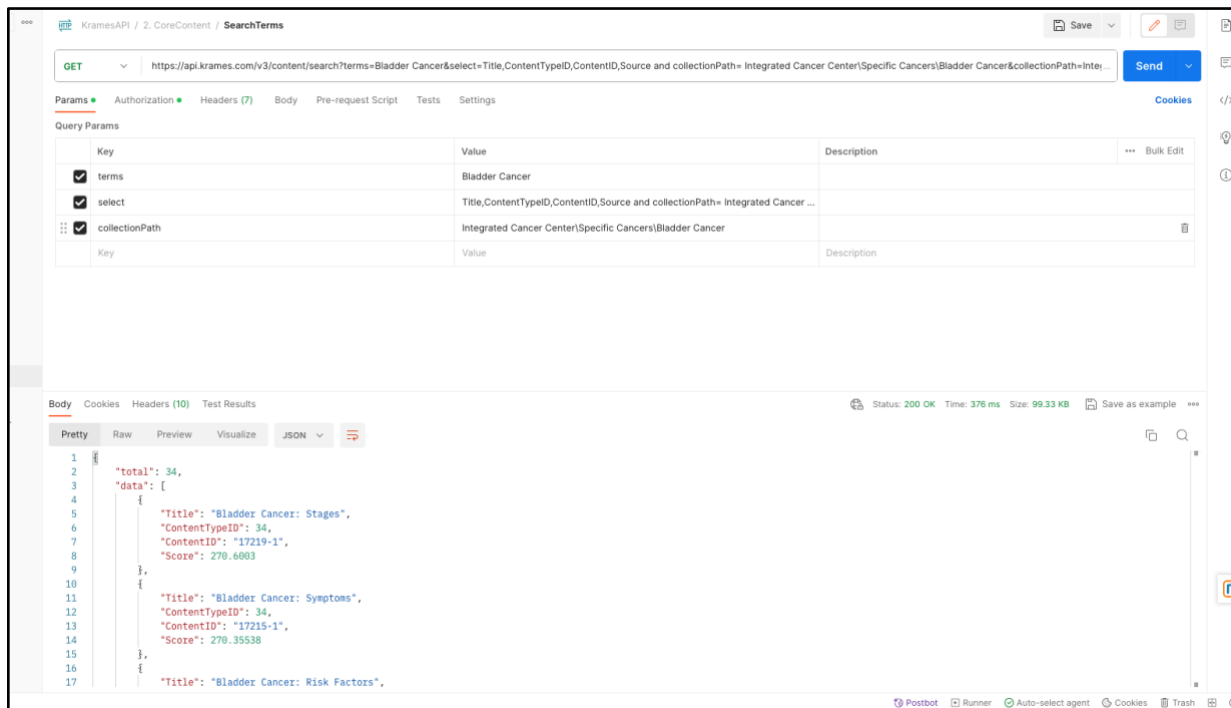
<https://api.krames.com /v3/content/search?terms=Breast Cancer>

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#### 4. terms = sore throat

Query Params:

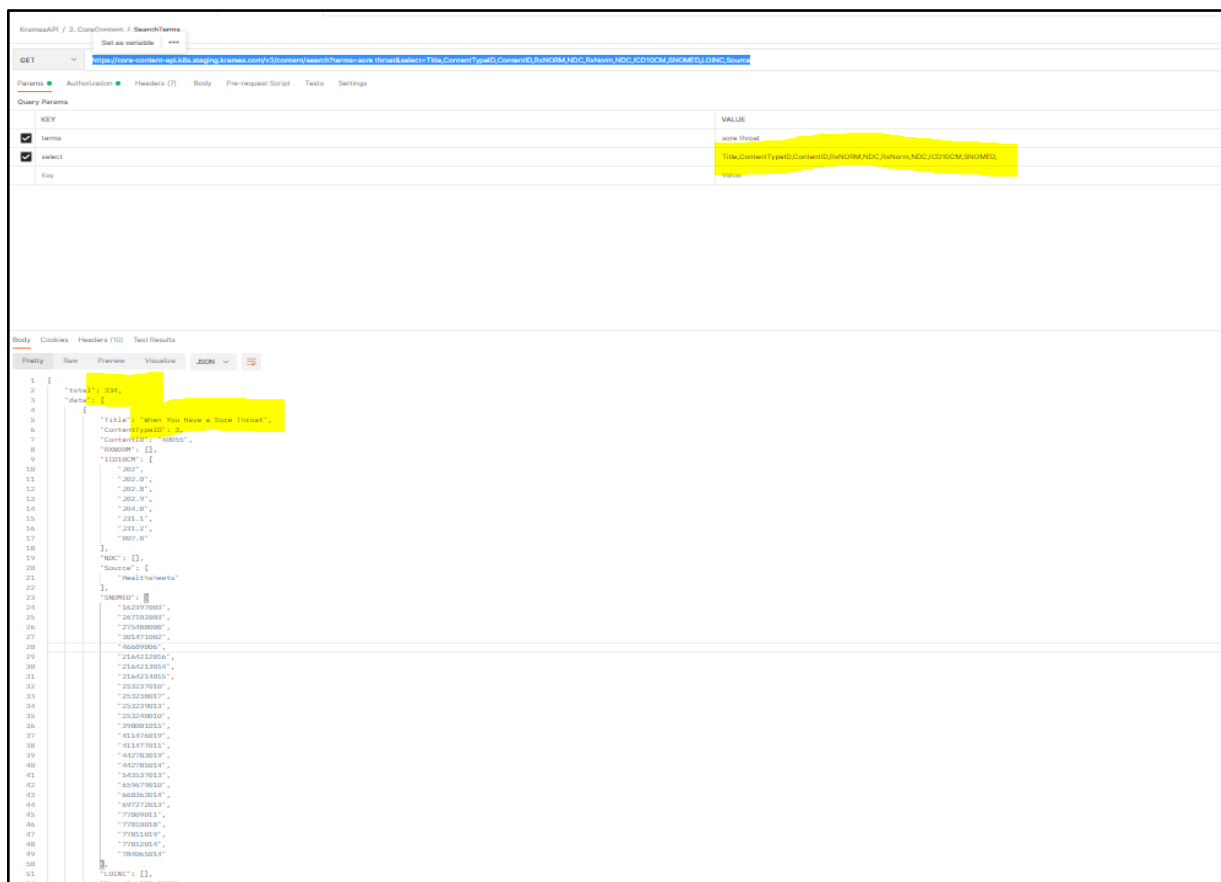
terms = sore throat

select = Title,ContentTypeID,ContentID,RxNORM,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source

There are 334 articles for this license which consist of the term sore throat in Title, body, and keywords.

<https://api.krames.com/v3/content/search?terms=sore throat&select=Title,ContentTypeID,ContentID,RxNORM,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source>

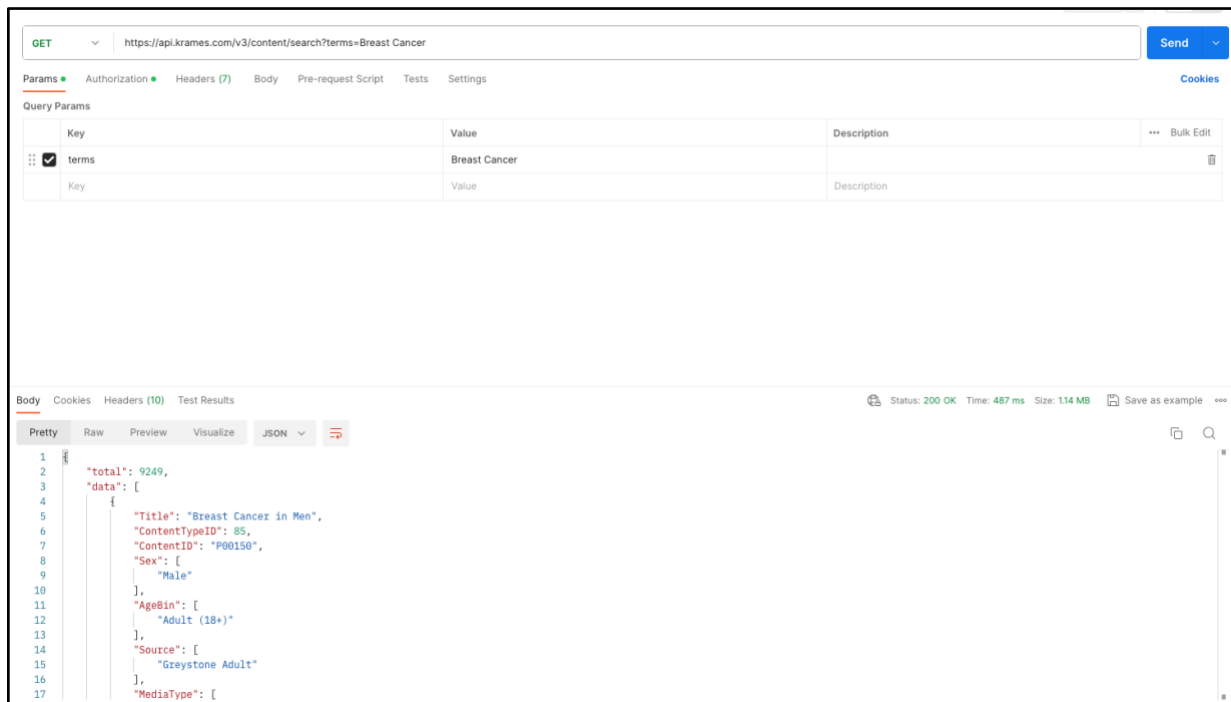




The screenshot shows a search results page for 'Sore throat' on WebMD. The search bar at the top contains the text 'Sore throat'. Below the search bar, there are tabs for 'All', 'Articles', 'Videos', and 'Images'. The 'Articles' tab is selected. The results are displayed as a list of 4421 articles. The first few articles are visible, showing titles like 'Sore throat: Symptoms, causes, and treatments' and 'Sore throat: What you need to know'. The page is paginated, showing 'Page 1 of 1'.

There are 4421 articles related to Sore throat





### 3. terms=Bladder Cancer

Query Parameters:

terms=Bladder Cancer

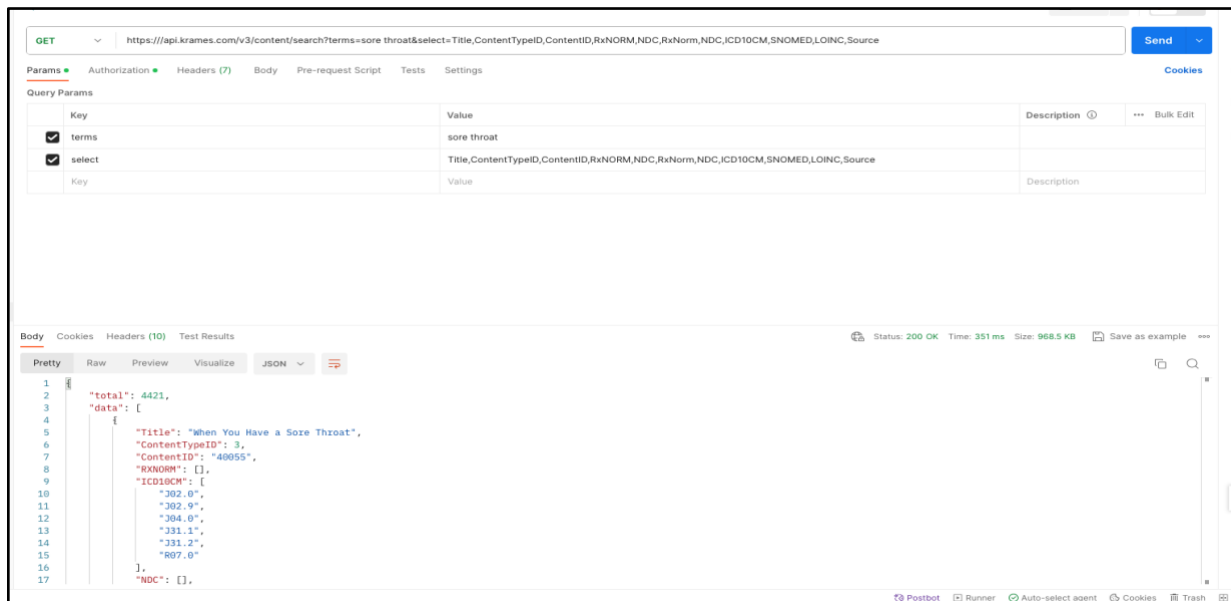
select = Title,ContentTypeID,ContentID,Source and collectionPath= Integrated Cancer Center\Specific Cancers\Bladder Cancer

collectionPath = Integrated Cancer Center\Specific Cancers\Bladder Cancer

There are 34 articles for this license which consist of the term Bladder Cancer and collectionPath= Integrated Cancer Center\Specific Cancers\Bladder Cancer in Title, body and keywords. This is more specific search to find articles under a collection folder

<https://api.krames.com/v3/content/search?terms=Bladder Cancer&select=Title,ContentTypeID,ContentID,Source and collectionPath= Integrated Cancer Center\Specific Cancers\Bladder Cancer&collectionPath=Integrated Cancer Center\Specific Cancers\Bladder Cancer>





GET <https://api.krames.com/v3/content/search?terms=sore throat&select=Title,ContentTypeID,ContentID,RxNorm,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source> Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
terms	sore throat			
select	Title,ContentTypeID,ContentID,RxNorm,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source			
Key	Value	Description		

Body Cookies Headers (10) Test Results Status: 200 OK Time: 351 ms Size: 968.5 KB Save as example

Pretty Raw Preview Visualize JSON

```

1 {
2   "total": 4421,
3   "data": [
4     {
5       "Title": "When You Have a Sore Throat",
6       "ContentTypeID": 3,
7       "ContentID": "40055",
8       "RXNORM": [],
9       "ICD10CM": [
10        "J02.0",
11        "J02.9",
12        "J04.0",
13        "J31.1",
14        "J31.2",
15        "R07.0"
16      ],
17       "NDC": []
18     }
19   ]
20 }

```

Postbot Runner Auto-select agent Cookies Trash

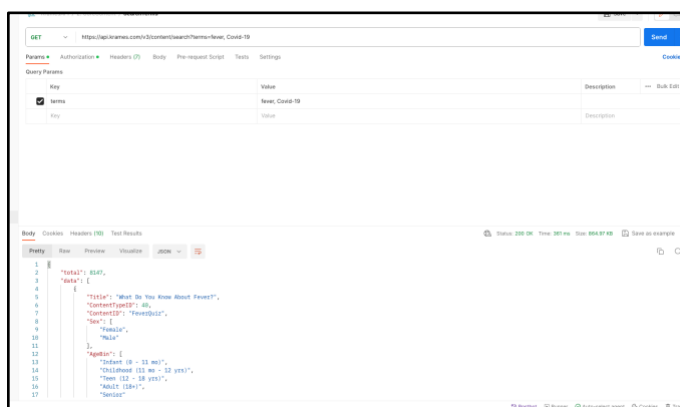
## 5. terms – fever, Covid-19

There are 3316 articles for this license which consist of the term fever, Covid-19 in Title, body and keywords.

Query Params:

terms = fever, Covid-19

<https://api.krames.com/v3/content/search?terms=fever, Covid-19>



GET <https://api.krames.com/v3/content/search?terms=fever, Covid-19> Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
terms	fever, Covid-19			
Key	Value	Description		

Body Cookies Headers (10) Test Results Status: 200 OK Time: 387 ms Size: 854.87 KB Save as example

Pretty Raw Preview Visualize JSON

```

1 {
2   "total": 3316,
3   "data": [
4     {
5       "Title": "What Do You Know About Fever?",
6       "ContentTypeID": 3,
7       "ContentID": "FeversAndFever",
8       "NDC": [
9         "N02BA01",
10        "N02BA02",
11        "N02BA03",
12        "N02BA04",
13        "N02BA05",
14        "N02BA06",
15        "N02BA07",
16        "N02BA08",
17        "N02BA09",
18        "N02BA10",
19        "N02BA11",
20        "N02BA12",
21        "N02BA13",
22        "N02BA14",
23        "N02BA15",
24        "N02BA16",
25        "N02BA17",
26        "N02BA18",
27        "N02BA19",
28        "N02BA20",
29        "N02BA21",
30        "N02BA22",
31        "N02BA23",
32        "N02BA24",
33        "N02BA25",
34        "N02BA26",
35        "N02BA27",
36        "N02BA28",
37        "N02BA29",
38        "N02BA30",
39        "N02BA31",
40        "N02BA32",
41        "N02BA33",
42        "N02BA34",
43        "N02BA35",
44        "N02BA36",
45        "N02BA37",
46        "N02BA38",
47        "N02BA39",
48        "N02BA40",
49        "N02BA41",
50        "N02BA42",
51        "N02BA43",
52        "N02BA44",
53        "N02BA45",
54        "N02BA46",
55        "N02BA47",
56        "N02BA48",
57        "N02BA49",
58        "N02BA50",
59        "N02BA51",
60        "N02BA52",
61        "N02BA53",
62        "N02BA54",
63        "N02BA55",
64        "N02BA56",
65        "N02BA57",
66        "N02BA58",
67        "N02BA59",
68        "N02BA60",
69        "N02BA61",
70        "N02BA62",
71        "N02BA63",
72        "N02BA64",
73        "N02BA65",
74        "N02BA66",
75        "N02BA67",
76        "N02BA68",
77        "N02BA69",
78        "N02BA70",
79        "N02BA71",
80        "N02BA72",
81        "N02BA73",
82        "N02BA74",
83        "N02BA75",
84        "N02BA76",
85        "N02BA77",
86        "N02BA78",
87        "N02BA79",
88        "N02BA80",
89        "N02BA81",
90        "N02BA82",
91        "N02BA83",
92        "N02BA84",
93        "N02BA85",
94        "N02BA86",
95        "N02BA87",
96        "N02BA88",
97        "N02BA89",
98        "N02BA90",
99        "N02BA91",
100       "N02BA92",
101       "N02BA93",
102       "N02BA94",
103       "N02BA95",
104       "N02BA96",
105       "N02BA97",
106       "N02BA98",
107       "N02BA99",
108       "N02BA00"
109     ]
110   ]
111 }

```

Postbot Runner Auto-select agent Cookies Trash

## Aggregate Filters

Aggregate filters are done using the aggregate buckets and values returned in the search results. These buckets and values are dynamic and will only include buckets and values that apply to the content contained in the current search results. Implementations of these filters should target buckets and values, not specific bucket names or specific values, as these will change with every search result.

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Some examples of buckets:

- AgeBin: [[Infant (0-11 mo), Child (11 mo – 12 yrs), Teen (12-18 yrs), Adult (18-64 yrs), Senior (65)], if no value is specified, all resources are returned.

Query Params:

Terms – Cancer

AgeBin – Teen (12 – 18 yrs)

[https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen \(12 - 18 yrs\)&=](https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen (12 - 18 yrs)&=)

GET [https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen \(12 - 18 yrs\)&=](https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen (12 - 18 yrs)&=) Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

Key	Value	Description
terms	Cancer	
AgeBin	Teen (12 - 18 yrs)	

Body Cookies Headers (10) Test Results

Status: 200 OK Time: 179 ms Size: 54.56 KB Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "total": 29,
3   "data": [
4     {
5       "Title": "Pediatric Cancer: One Step at a Time",
6       "ContentTypeID": 182,
7       "ContentID": "S2029",
8       "Sex": [
9         "Female",
10        "Male"
11      ],
12       "AgeBin": [
13         "Teen (12 - 18 yrs)"
14      ],
15       "Source": [
16         "ShareWIK: Patient Perspective"
17      ]
18     }
19   ]
20 }
```

- Sex: [Male, Female], if no value is specified, all resources are returned.

Query Params:

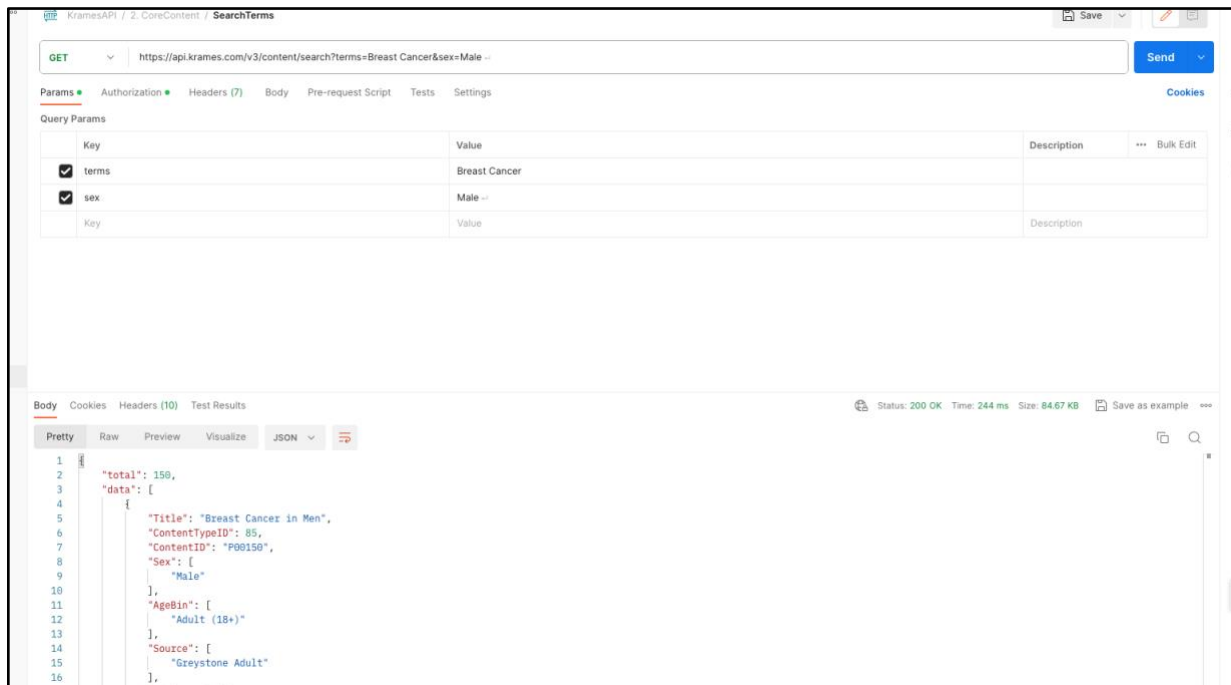
Terms – Breast Cancer,

aggregate filter (sex) - Male

<https://api.krames.com/v3/content/search?terms=Breast Cancer&sex=Male>

This API call will retrieve all the articles related to the search terms “Breast Cancer” and aggregate filter (Sex = Male)





GET https://api.krames.com/v3/content/search?terms=Breast Cancer&sex=Male

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

Key	Value	Description	Bulk Edit
terms	Breast Cancer		
sex	Male		

Body Cookies Headers (10) Test Results

Status: 200 OK Time: 244 ms Size: 84.67 KB Save as example

```

1 {
2   "total": 150,
3   "data": [
4     {
5       "Title": "Breast Cancer in Men",
6       "ContentTypeID": 85,
7       "ContentID": "P00150",
8       "Sex": [
9         "Male"
10      ],
11      "AgeBin": [
12        "Adult (18+)"
13      ],
14      "Source": [
15        "Greystone Adult"
16      ],
17    }
18  ]
19 }

```

- MediaType: [Document, Streaming Media]

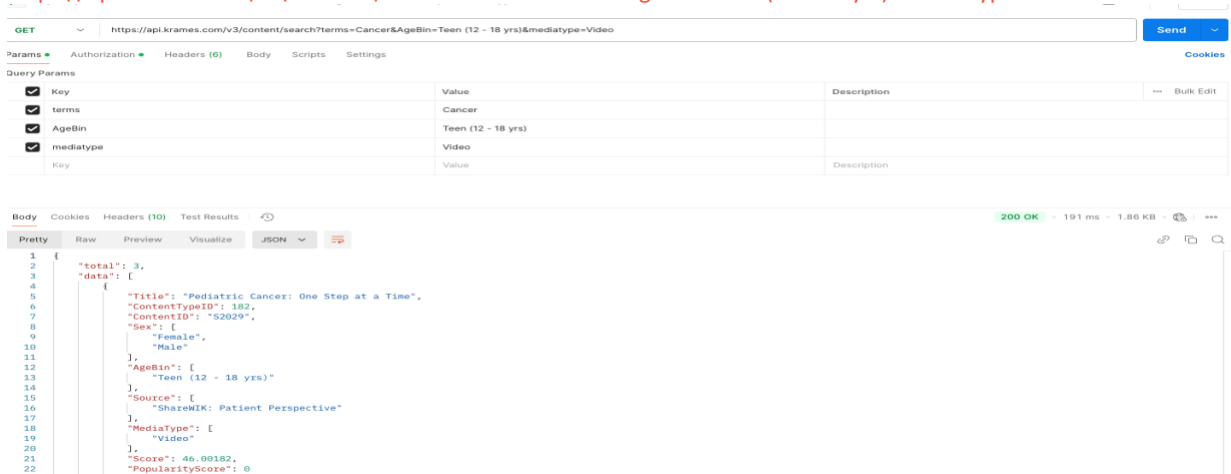
Query Params:

Terms – Cancer

AgeBin - Teen (12 - 18 yrs)

Mediatype- Video

[https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen \(12 - 18 yrs\)&mediatype=Video](https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen (12 - 18 yrs)&mediatype=Video)



GET https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen (12 - 18 yrs)&mediatype=Video

Params Authorization Headers (6) Body Scripts Settings

Query Params

Key	Value	Description	Bulk Edit
terms	Cancer		
AgeBin	Teen (12 - 18 yrs)		
mediatype	Video		

Body Cookies Headers (10) Test Results

200 OK - 191 ms - 1.86 KB

```

1 {
2   "total": 3,
3   "data": [
4     {
5       "Title": "Pediatric Cancer: One Step at a Time",
6       "ContentTypeID": 182,
7       "ContentID": "S2029",
8       "Sex": [
9         "Female",
10        "Male"
11      ],
12      "AgeBin": [
13        "Teen (12 - 18 yrs)"
14      ],
15      "Source": [
16        "ShareWIK: Patient Perspective"
17      ],
18      "Mediatype": [
19        "Video"
20      ],
21      "Score": 46.00182,
22      "PopularityScore": 0
23    }
24  ]
25 }

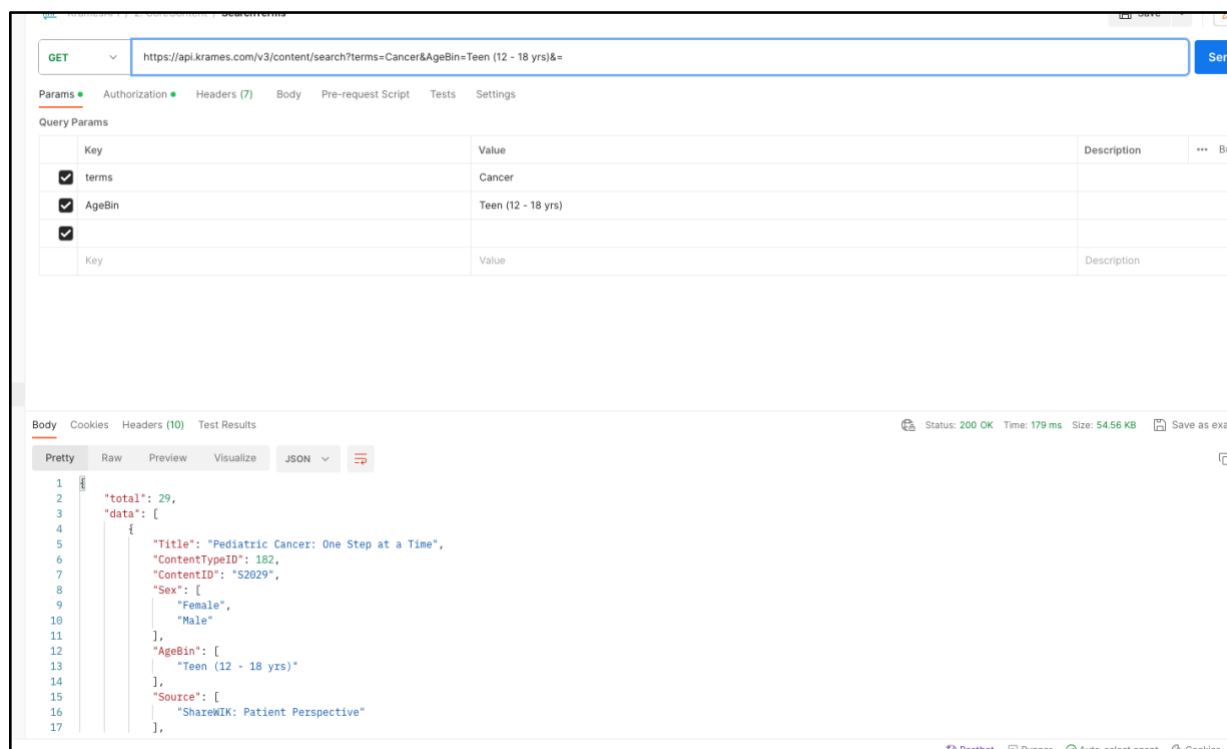
```

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GET [https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen \(12 - 18 yrs\)&=](https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen (12 - 18 yrs)&=) Send

Params • Authorization • Headers (7) • Body • Pre-request Script • Tests • Settings

Query Params

Key	Value	Description	...	Build
<input checked="" type="checkbox"/> terms	Cancer			
<input checked="" type="checkbox"/> AgeBin	Teen (12 - 18 yrs)			
<input checked="" type="checkbox"/>				
Key	Value	Description		

Body Cookies Headers (10) Test Results Status: 200 OK Time: 179 ms Size: 54.56 KB Save as example

Pretty Raw Preview Visualize JSON

```

1 {
2   "total": 29,
3   "data": [
4     {
5       "Title": "Pediatric Cancer: One Step at a Time",
6       "ContentTypeID": 182,
7       "ContentID": "S2829",
8       "Sex": [
9         "Female",
10        "Male"
11      ],
12      "AgeBin": [
13        "Teen (12 - 18 yrs)"
14      ],
15      "Source": [
16        "ShareWIK: Patient Perspective"
17      ],
18    }
19  ]
20 }
```

- Sources: [HealthSheets, Custom Content Exit-Writer, ASHP Drug Sheets]. See complete list of content sources above

ASHP Drug Sheets API Call: <https://api.krames.com/v3/content/Search?Source=Drug Sheets>

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GET

https://api.krames.com/v3/content/Search?Source=Drug Sheets

Send

Params

Authorization

Headers (6)

Body

Scripts

Settings

Cookies

Query Params

<input checked="" type="checkbox"/> Key	Value	Description	Bulk Edit
<input checked="" type="checkbox"/> Source	Drug Sheets		
Key	Value	Description	

Body

Cookies

Headers (10)

Test Results

Status: 200 OK Time: 146 ms Size: 3.96 KB Save as example

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "total": 2014,
3   "data": [
4     {
5       "Title": "Anagrelide",
6       "ContentTypeID": 203,
7       "ContentID": "a601020",
8       "Sex": [
9         "Female",
10        "Male"
11      ],
12      "AgeBin": [
13        "Infant (0 - 11 mo)",
14        "Childhood (11 mo - 12 yrs)",
15        "Teen (12 - 18 yrs)",
16        "Adult (18+)",
17        "Senior"
18      ],
19      "Source": [
20        "Drug Sheets"
21      ],
22      "MediaType": [
23        "Document"
24      ],
25      "Score": 4.5473285,
26      "ParentContentID": "a
```

Query Params:

Terms – Heart Disease

Source – Wellness Library

<https://api.krames.com/v3/content/search?terms=Heart Disease&Source=Wellness Library>

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Overview POST GetToken GET GetColl GET GetServ GET SearchS GET https://a GET https://a GET SearchTr GET SearchAI GET GetCont GET Dynamic GET SearchC + No Environment

KramesAPI / 2. CoreContent / SearchTerms

GET https://api.krames.com/v3/content/search?terms=Heart Disease&Source=Wellness Library

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

Key	Value	Description	Bulk Edit
<input checked="" type="checkbox"/> terms	Heart Disease		
<input checked="" type="checkbox"/> Source	Wellness Library		
Key	Value	Description	

Body Cookies Headers (10) Test Results

Status: 200 OK Time: 253 ms Size: 177.46 KB Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "total": 215,
3   "data": [
4     {
5       "Title": "A Woman's Guide to Beating Heart Disease",
6       "ContentTypeID": 1,
7       "ContentID": "1998",
8       "Sex": [
9         "Female"
10      ],
11       "AgeBin": [
12         "Adult (18+)",
13         "Senior"
14       ],
15       "Source": [
16         "Wellness Library"
17       ]
18     }
19   ]
20 }
```

**Custom Content Search:** Below is the API call to search all the custom content in a license.

<https://api.krames.com/v3/content/search?Source=Client Content&=>

KramesAPI / 2. CoreContent / SearchTerms

GET https://core-content-api.krames.com/v3/content/search?Source=Client Content&=

Params Authorization Headers (9) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION	Bulk Edit
<input checked="" type="checkbox"/> Source	Client Content		
Key	Value	Description	

Body Cookies Headers (9) Test Results

Status: 200 OK Time: 302 ms Size: 3.75 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "total": 31,
3   "data": [
4     {
5       "Title": "Diagnosis and Classification of Diabetes",
6       "ContentTypeID": 22,
7       "ContentID": "dis_dm_classificationdiagnosis",
8       "Sex": [
9         "Female",
10        "Male"
11      ],
12       "AgeBin": [
13         "Adult (18+)"
14      ],
15       "Sources": [
16         "Client Content"
17      ],
18       "MediaType": [
19         "Document"
20      ]
21     }
22   ]
23 }
```

## Code Filters

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Filtering by code supports content retrieval using standard clinical lexicons such as ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, NDC and RxNORM. These codes are applied using query string parameters, but are not present in the Aggregate Filters. To utilize these filters, the client must have knowledge of what code they intend to search on, as the search results do not contain this information.

#### Query Params: SNOMED - 10633002

KEY	VALUE	DESCRIPTION
SNOMED	10633002	
select	Title, ContentTypeID, ContentID, SNOMED	

```
{
  "total": 10,
  "data": [
    {
      "Title": "Medications for Heart Failure",
      "ContentID": "T4657",
      "SNOMED": "10633002",
      "ContentTypeID": "11111000119104",
      "ContentID": "12001000119104",
      "SNOMED": "12001000119104",
      "ContentID": "12001000119104",
      "SNOMED": "12001000119104",
      "ContentID": "12001000119104",
      "SNOMED": "12001000119104",
      "ContentID": "12001000119104",
      "SNOMED": "12001000119104",
      "ContentID": "12001000119104",
      "SNOMED": "12001000119104",
      "ContentID": "12001000119104",
      "SNOMED": "12001000119104",
      "ContentID": "12001000119104",
      "SNOMED": "12001000119104",
      "ContentID": "12001000119104",
      "SNOMED": "12001000119104",
      "ContentID": "12001000119104"
    }
  ]
}
```

#### Query Params -MESH - D010051 and ICD10CM – C56

KEY	VALUE	DESCRIPTION
MESH	D010051	
ICD10CM	C56	
select	Title,MESH,ICD10CM	

```
{
  "total": 9,
  "data": [
    {
      "Title": "Ovarian Cancer: Tests After Diagnosis",
      "ICD10CM": [
        "C56",
        "C56.1",
        "C56.2",
        "C56.9",
        "C79.6",
        "C79.60",
        "C79.61",
        "C79.62",
        "D39.1",
        "D39.10",
        "D39.11",
        "D39.12"
      ],
      "MESH": [
        "D010051"
      ]
    }
  ]
}
```

#### Pagination

By default, search results are returned in pages of 10, starting at the first page. To paginate through the content, the `limit` and `offset` parameters are available.

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Setting the `limit` parameter will change the page size, and setting the `offset` will change where you are in the results.

The search results include a `total` value that indicates the total number of records in the result set. Using this `total`, `limit`, and `offset`, full pagination of the search results is available.

There are 4 examples listed below on how to use limit parameters and one example with limit and offset.

1. No limit parameters.

This will pull the first 10 results in the search query for the terms=cancer

The screenshot shows a REST client interface with the following details:

- Request:** GET `https://api.krames.com/v3/content/search?terms=cancer`
- Params:** `terms=cancer`
- Status:** 200 OK, Time: 345 ms, Size: 988.85 KB
- Response Body (JSON):**

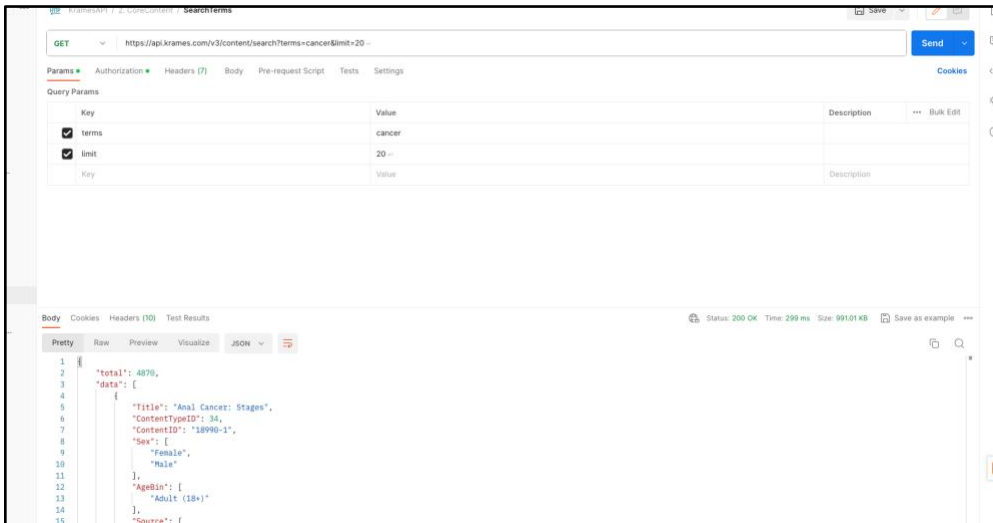
```
{
  "total": 4870,
  "data": [
    {
      "Title": "Anal Cancer: Stages",
      "ContentTypeID": 34,
      "ContentID": "18990-1",
      "Sex": [
        "Female",
        "Male"
      ],
      "AgeBin": [
        "Adult (18+)"
      ],
      "Source": [
        "Cancer Source"
      ]
    }
  ]
}
```

2. Limit parameters set to >10 and <100

The below API call will retrieve first limit-20 results for the search term = cancer.

<https://api.krames.com/v3/content/search?terms=cancer&limit=20>

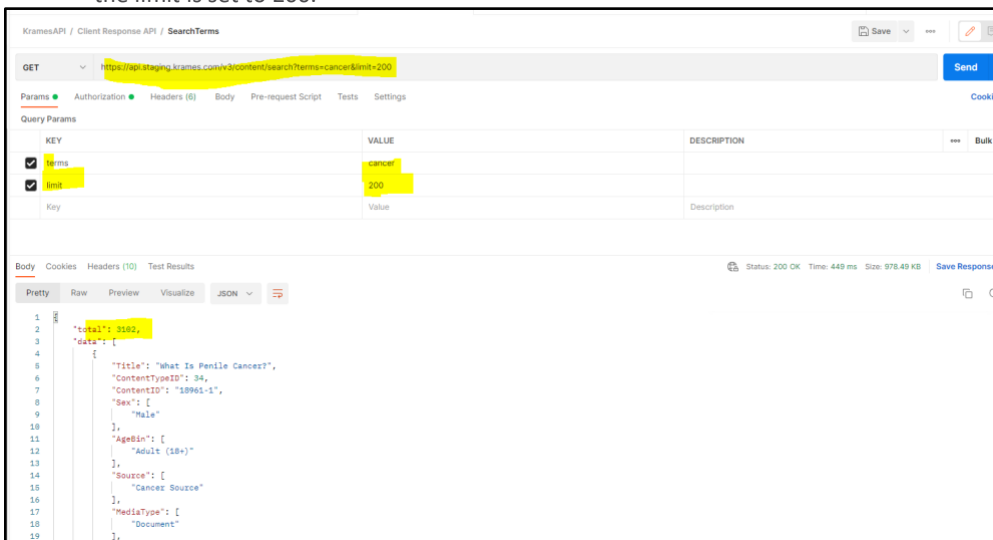




### 3. limit parameter set to >100

[https://api.krates.com/v3/content/search?terms=cancer&limit=200](https://api.krames.com/v3/content/search?terms=cancer&limit=200)

The maximum resultset in an API call will always be 100. The below API call will only first pull 100 titles with the term cancer even if the limit is set to 200.



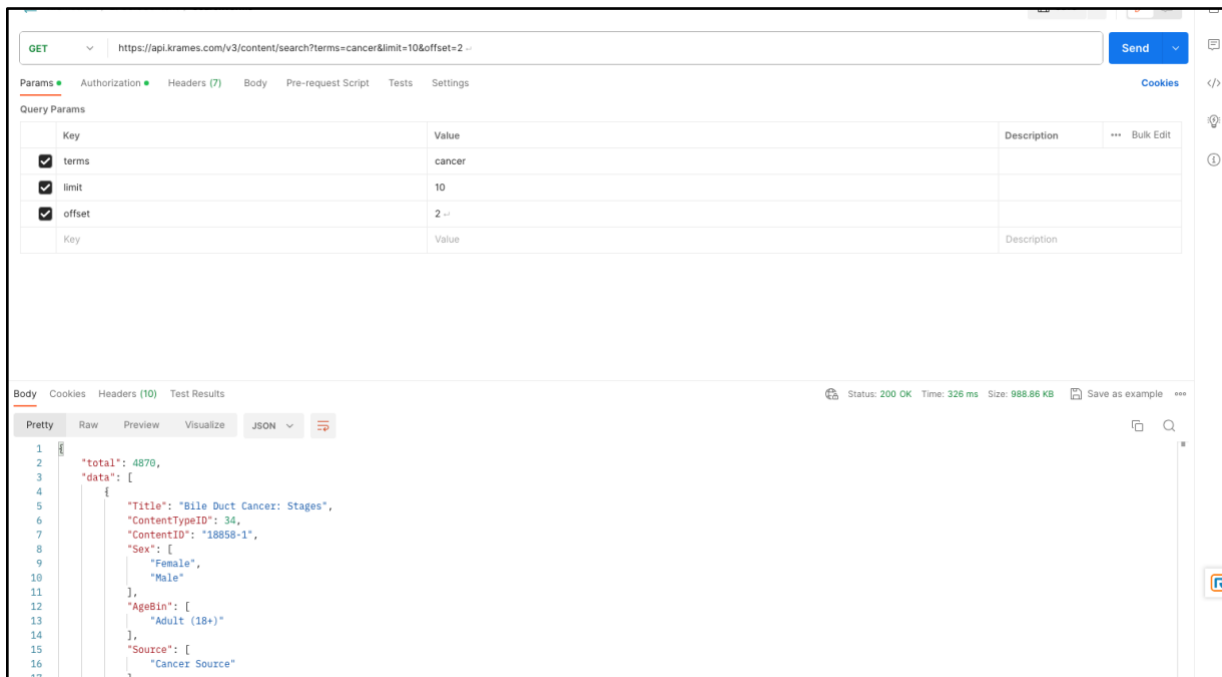
### 4. limit parameter set to >10 and offset>2

<https://api.krates.com/v3/content/search?terms=cancer&limit=10&offset=2>

offset will change where you are in the resultset and will pull the first ten results from that location







## Selecting Fields

By default, the results contain the following fields:

1. Title
2. ContentTypeID
3. ContentID
4. Sex
5. AgeBin
6. Source
7. MediaType
8. Score (This is an internal field that represents the relevancy score)

The fields that are selected when a search is executed can be specified using the select parameter. `GET /v3/content/Search?select=Title,ContentTypeID,ContentID` would return only those 3 fields.

Available fields for selecting include:

- CollectionID
- RXNORM
- ICD10CM
- ICD10PCS
- NDC
- MediaType
- MESH
- SNOMED
- HCPCS

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- CPT
- LOINC
- ICD9
- Language
- Blurb
- Keywords

### **Content & Terms blocking**

The RESTful API now supports content & term blocking. This functionality prevents results to be displaced or that specific content from showing up in the response of the search endpoint. To enable this functionality, please reach out to the Ignite Education implementation team with the list of terms or content you want to be blocked from the search endpoint.



## Technical Specifications

Resource	GET /v3/content/Search
Description	The core search endpoint for searching content.
Parameters	<p>HTTP Headers:</p> <p>accepts-language the content language, default to en.</p> <p>Querystring Parameters (all optional):</p> <p>language: en //Overwrites any accepts-language header, defaults to 'en'</p> <p>terms: &lt;String&gt;</p> <p>rxnorm: [&lt;String&gt;, &lt;String&gt;]</p> <p>sex: [&lt;String&gt;, &lt;String&gt;]</p> <p>icd10pcs: [&lt;String&gt;, &lt;String&gt;]</p> <p>icd10cm: [&lt;String&gt;, &lt;String&gt;]</p> <p>snomed: [&lt;String&gt;, &lt;String&gt;]</p> <p>hcpcs: [&lt;String&gt;, &lt;String&gt;]</p> <p>ndc: [&lt;String&gt;, &lt;String&gt;]</p> <p>mesh: [&lt;String&gt;, &lt;String&gt;]</p> <p>loinc: [&lt;String&gt;, &lt;String&gt;]</p> <p>ageBin: [&lt;String&gt;, &lt;String&gt;]</p> <p>cptcode: [&lt;String&gt;, &lt;String&gt;]</p> <p>source: [&lt;String&gt;, &lt;String&gt;]</p> <p>mediatype: [&lt;String&gt;, &lt;String&gt;]</p> <p>select: [&lt;String&gt;, &lt;String&gt;]</p> <p>icd9code: [&lt;String&gt;, &lt;String&gt;]</p> <p>limit: &lt;Integer&gt; // Default: 10</p> <p>offset: &lt;Integer&gt; // Default: 0</p> <p>select: [&lt;String&gt;, &lt;String&gt;]</p>
Return Values	<p>200 Success</p> <pre>{   "total": 217,   "data": [     {       "title": &lt;String&gt;,       "contentType": &lt;Integer&gt;,       "contentId": &lt;String&gt;,       "String: Aggregation Name": [         &lt;String&gt;       ],       ...,       "score": 7.0069566     }   ],   "aggregations": [     {       "name": "Aggregation Name",       "aggregationValues": {</pre>

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```
    "abc": 209,  
    "xyz": 193  
  }  
}  
]  
}  
500  
{  
  errors: [<String>]  
}
```



## Content Retrieval

API Calls	Parameters
<a href="https://api.krames.com/">https://api.krames.com/</a>	
<a href="https://api.krames.com/v3/collection">https://api.krames.com/v3/collection</a>	
<a href="https://api.krames.com/v3/collection/{subtopicId}">https://api.krames.com/v3/collection/{subtopicId}</a>	subtopicId
<a href="https://api.krames.com/v3/content/search?collectionPath={{collectionPath}}">https://api.krames.com/v3/content/search?collectionPath={{collectionPath}}</a>	collectionPath
<a href="https://api.krames.com/v3/content/{ContentTypeID}-{ContentID}">https://api.krames.com/v3/content/{ContentTypeID}-{ContentID}</a>	ContentTypeID and ContentID
<a href="https://api.krames.com/v3/service_line">https://api.krames.com/v3/service_line</a>	
<a href="https://api.krames.com/KODI_Sigmoid/Content.svc/GetAllServiceLineAudiences">https://api.krames.com/KODI_Sigmoid/Content.svc/GetAllServiceLineAudiences</a>	
<a href="https://api.krames.com/v3/content/search?terms={keyword}">https://api.krames.com/v3/content/search?terms={keyword}</a>	Terms={keywords}
<a href="https://api.krames.com/v3/content/search?terms={keywords}">https://api.krames.com/v3/content/search?terms={keywords}</a> Cancer&select=Title,ContentTypeID,ContentID,Source and Cancer&collectionPath={collectionPath}	Terms, select, collectionPath
<a href="https://api.krames.com/v3/content/search?terms={keyword}&amp;select=Title,ContentTypeID,ContentID,RxNORM,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source">https://api.krames.com/v3/content/search?terms={keyword}&amp;select=Title,ContentTypeID,ContentID,RxNORM,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source</a>	
<a href="https://api.krames.com/v3/content/search?terms={keywords}&amp;select=Title,ContentTypeID,ContentID,RxNORM,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source">https://api.krames.com/v3/content/search?terms={keywords}&amp;select=Title,ContentTypeID,ContentID,RxNORM,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source</a>	Terms, select
<a href="https://api.krames.com/v3/content/search?terms={keywords}&amp;AgeBin={AgeBin}">https://api.krames.com/v3/content/search?terms={keywords}&amp;AgeBin={AgeBin}</a>	Terms, AgeBin
<a href="https://api.krames.com/v3/content/search?terms={keywords}&amp;sex={GENDER}">https://api.krames.com/v3/content/search?terms={keywords}&amp;sex={GENDER}</a>	Terms, sex
<a href="https://api.krames.com/v3/content/search?terms={Keywords}&amp;AgeBin={AgeBin}&amp;mediatype={mediatype}">https://api.krames.com/v3/content/search?terms={Keywords}&amp;AgeBin={AgeBin}&amp;mediatype={mediatype}</a>	Terms, sex, mediatype
<a href="https://api.krames.com/v3/content/search?terms={keywords}&amp;Source={SourceName}">https://api.krames.com/v3/content/search?terms={keywords}&amp;Source={SourceName}</a>	Terms, Source
<a href="https://api.krames.com/health">https://api.krames.com/health</a>	

## Use Cases

### Related Content

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Related content can be obtained by using MeSH codes from either a Get Content request, or by selecting the MeSH codes in the search response, and executing a second search request using the MeSH code as a filter. The resulting search results would include documents related to the source content.

Example:

Perform a search:

GET /v3/content/Search?terms=diabetes

Select a document and retrieve:

GET /v3/content/123-1234

In the response from the get content call, we can see a MeSH code in the metadata of that response. We could display this document to a user, along with related documents, by executing a search using the MeSH code that was present in the document:

Get related content:

GET /v3/content/Search?MESH=98765

The results returned from this related content search can be displayed along with the contents of the document being displayed to inform the user of other content that is related to the document they are looking at.

## Type 2 Diabetes

### What is type 2 diabetes?

Type 2 diabetes is when your body can't make enough insulin, or use it well. Insulin helps your cells use sugar (glucose) for energy. Without insulin, glucose builds up in your blood. This leads to high blood sugar.

Type 2 diabetes is an ongoing (chronic) disease. It has no known cure. It's the most common type of diabetes.

### What causes type 2 diabetes?

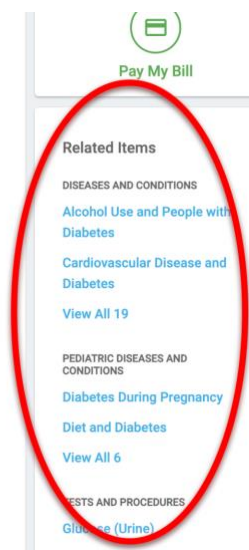
The exact cause of type 2 diabetes is not known. It seems to run in families. But it often takes other factors to bring on the disease. These include:

- Being overweight
- Not getting enough physical activity
- Taking certain medicines

### Who is at risk for type 2 diabetes?

Risk factors include:

- **Age.** People ages 45 and older are at higher risk for diabetes.





## APPENDIX

Each content resource is identified by a Content Type ID (numeric code) and a Source which is the text description of the Content Type ID.

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Clinical Content

The table below provides detailed information on each content Source and Content Type ID included in a typical Clinical user license. The content included in a specific client’s license may be different. Only licensed content will be available through the API.

Note: The number of resources and languages will be continually updated with each content update. The information provided below is for illustrative purposes only.

Consult the Quarterly Content Update documentation for current content counts and language support.

Source	Standard Description	Content Type ID	Possible Metadata <i>Note: Assigned metadata depends on the topic</i>
Health Sheets	Patient Education documents that provide education on conditions, self-management and treatment options.	3	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Exit-Writer Discharge Instructions	Discharge documents that provide patients with about a common diagnosis or health concern with information on when to seek additional care.	82	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Lab Tests	Documents that help patients understand procedures and lab tests and range of results (normal, below and above normal ranges).	167	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Greystone - Pediatric	Patient Education focussed on conditions, treatment, and self-management options and the special needs of pediatric patients.	90	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Drug Sheets	Documents that provide people with information about prescription drugs.	203	RxNORM, NDC
Disease Management	Selected resources only. Chronic condition resources.	56	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords





<b>Greystone Adult</b>	Selected resources only. Patient Education documents that provide education on conditions, self-management and treatment options.	85	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>Scc Diseases and Conditions</b>	Selected resources only.	134	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>Wellness Library</b>	Selected resources only.	1	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>Cancer Source</b>	Selected resources only.	34	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>Scc Diseases and Conditions - Pediatric</b>	Selected resources only.	160	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>Scc Tests and Procedures</b>	Selected resources only. Documents that help patients understand procedures and lab tests and range of results.	135	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>Greystone Tests and Procedures</b>	Selected resources only.	92	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>Scc Tests and Procedures - Pediatric</b>	Selected resources only. Documents that help patients understand procedures and lab tests and range of results.	161	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>Kids Health Discharge Instructions</b>	Optional: Available for additional licensing. 3rd Party content focussed on conditions, treatment, and self-	187	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords

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	management options and the special needs of pediatric patients.		
<b>Ignite Education Clinical Videos - Includes Step-by-step animation videos</b>	Ignite Education videos that address common conditions, teach self-management skills.	138	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>TWN Videos</b>	TWN videos that address common conditions, teach self-management skills.	207	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>ViewMedica Videos</b>	Third party videos to educate patients on how to administer specific medications.	198	
<b>VUCA Videos: Administration</b>	Third party videos to educate patients on how to administer specific medications.	192	Keyword
<b>VUCA Videos: Condition</b>	Third party videos to educate patients on medications for specific conditions.	193	Keyword
<b>VUCA Videos: Medication</b>	Third party videos to educate patients on medications.	194	RxNORM, NDC
<b>KidsHealth Videos</b>	Third party videos to educate patients on how to administer specific medications.  KidsHealth Videos can be used within Krames on FHIR, too.	202	
<b>Video HealthSheet</b>	Printable description of a video, including abstract, QR code and short URL.	188	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>The Wellness Network Video HealthSheets</b>	Printable description of a video, including abstract, QR code and short URL	209	

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<b>ViewMedica VideoSheets</b>	Printable description of a video, including abstract, QR code and short URL	200	
<b>KidsHealth Video Sheets</b>	Printable description of a video, including abstract, QR code and short URL.	204	
<b>VUCA Video Sheets</b>	Printable description of a video, including abstract, QR code and short URL	201	
<b>Client's Custom Content</b>	Customized documents specific to a client.	22	Determined by each client





## Consumer Resources

Clients may also license content from the Consumer Health Library. The table below provides detailed information on the Content Source and corresponding Content Type ID and possible metadata. The content listed below represents the content included for a typical consumer use case. The content included in a specific client's license may be different. Only licensed content will be available through the API.

Content Type Name	Standard Description	Content Type ID	Possible Metadata <i>Note: Actual metadata depends on the topic</i>
Wellness Library	Education focussed on lifestyle and wellness topics.	1	MeSH, Serviceline, Keywords
ICM Health & Wellness	Consumer Education documents that provide education on conditions, self-management and treatment options.	197	MeSH, Serviceline, Keywords
Prevention Planner	Consumer Education documents that provide education on preventive services.	43	MeSH, Serviceline, Keywords
Greystone Adult * Has Segments	Consumer Education documents that provide education on conditions, self-management and treatment options.	85	MeSH, Serviceline, Keywords
Scd Diseases and Conditions * Has Segments	Consumer Education documents that provide education on conditions, self-management and treatment options.	134	MeSH, Serviceline, Keywords
Lab Tests	Documents that help patients understand procedures and lab tests and range of results.	167	MeSH, Serviceline, Keywords
Scd Tests and Procedures * Has Segments	Documents that help patients understand procedures and lab tests.	135	MeSH, Serviceline, Keywords
Greystone Tests and Procedures * Has Segments	Documents that help patients understand lab tests	92	MeSH, Serviceline, Keywords

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<p>Scd Diseases and Conditions - Pediatric</p> <p><i>* Has Segments</i></p>	<p>Consumer Education documents that provide education on conditions, self-management and treatment options for pediatric patients.</p>	160	MeSH, Serviceline, Keywords
<p>Greystone Pediatrics</p> <p><i>* Has Segments</i></p>	<p>Education focussed on conditions, treatment, and self-management options and the special needs of pediatric patients.</p>	90	MeSH, Serviceline, Keywords
<p>Scd Tests and Procedures -Pediatric</p> <p><i>* Has Segments</i></p>	<p>Education focussed on Tests and Procedures options and the special needs of pediatric patients.</p>	161	MeSH, Serviceline, Keywords
Disease Management	Chronic condition resources.	56	MeSH, Serviceline, Keywords
Recipes	Variety of healthier-option recipes.	30	MeSH, Serviceline, Keywords
Cancer Source	Education focussed on cancer-related topics	34	MeSH, Serviceline, Keywords
Cancer FAQs	Education focussed on cancer-related topics.	35	
Quizzes	Interactive resources.	40	MeSH, Serviceline, Keywords
Risk Assessments	Interactive resources.	42	MeSH, Serviceline, Keywords
Calculators	Interactive resources.	41	MeSH, Serviceline, Keywords
Greystone Newsletters	Newsletter style resources.	88	Keywords
<p><b>Ignite Education Clinical Videos</b></p> <p>Includes approximately 100 Step-by-step animation videos</p>	<p>Ignite Education videos that address common conditions, teach self-management skills.</p>	138	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
<b>Client's Custom Content</b>	Customized documents specific to a client.	22	Determined by client





Drug Sheets	Third-party brand and generic prescription ASHP drug content.	203 - New 208 - Old	RxNORM, NDC
Nutrition Facts	Third party content with nutrition facts for common foods.	20	
Nutritional Supplement Advisor	Third-party content with information on dietary supplements.	19	

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## Languages

Ignite Education provides content in 3 language sets: basic, plus, and premium, depending on the content source. See the table below for the content type associated with a language. Note that some specific resources may be offered in additional languages.

Content Source	Standard Languages: (ISO639)		Optional Languages, depend on the specific resource	
Basic Language	EN ES	English Spanish		
Plus Language	ZH ZH- CN DE RU VI	Chinese Chinese Simplified German Portuguese Russian Vietnamese		
Premium Language	AR FR HT HI IT JO KO PL TGL	Arabic French Haitian-Creole Hindi Italian Japanese Korea Polish Tagalog		
LabSheets	en es	English Spanish		
ASHP Drug Sheets	en es	English Spanish		
Ignite Education Clinical Videos	en es	English Spanish		
Step-by-step animation Videos ( <i>Ignite Education Clinical Video collection</i> )	en es	English Spanish		
Consumer Health Library	en	English		Selected titles are available in Spanish

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Segmented Content

Segmented content is available for the content sources below.

Please note: Not all articles in the Source below contain segments. The segments are not required. For example, “Call 911” may not be available for all conditions.

Source	Available Segments
Greystone Adult Greystone Pediatric Scc Diseases and Conditions	Overview Causes Symptoms Diagnosis Treatment Prevention Living With When to Call a Healthcare Provider Call 911 Key Points Next Steps
Greystone Tests and Procedures Scc Tests and Procedures Scc Tests and Procedures - Pediatric	Overview Purpose Risks Preparation During the Test After the Test Next Steps

