



NICE Syndication and API guide

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Please use Google Chrome for effective linking from this document

Introduction

1. The NICE Syndication Service has been specifically designed to encourage third-party access to the unique repository of national content and advice we produce to support health and care professionals in England. This guide sets out clearly the types of content available through syndication, and will help you to navigate the Application Programming Interface (API) to identify, access and easily extract the content you require for your own applications, systems and platforms. Whether you simply wish to focus on a specific topic or condition, or use a much wider array of content, this guide will support your use of the service.
2. The NICE Syndication Service is part of NICE's digital content dissemination strategy which allows commercial and non-commercial third-party organisations both within the UK and overseas to embed selected NICE content within their own systems and services. All content available for syndication is listed in [Table 1](#) and is delivered through an API. On acceptance of our generic licence terms and conditions ([available here](#)) and subject to our application and approval [process](#), an API key registered against an individual's name will be allocated allowing access to the specific NICE content agreed in your licence.
3. The NICE Syndication Service aims to formalise and control the distribution of NICE content through a quality assured service – limiting unauthorised use by providing content openly and in reputable digital formats ([see paragraph 6](#)) suitable for integration and presentation purposes. Benefits include seamless real-time delivery, links with NICE and the use of our logo where appropriate within your application or system. All NICE content is subject to periodic review and updating, and when you access the service you will automatically get updated content. If necessary, you can choose to cache the information (recommended), refreshing it as agreed with NICE. The usual timeframes for caching are as follows:
 - immediately at the request of NICE **or**
 - for page views by feed: no less than once every 24 (twenty-four) hours **and**
 - for all other information no less than once every 7 (seven) days.
4. The NICE Syndication Service allows developers and content integrators access to the vast majority of content that NICE provides in a number of formats. The content categories will be set out in your licence and can be used for a wide variety of purposes including, but not limited to, decision support tools, interactive tools, websites and mobile apps.

5. Our site is designed as a RESTful interface for developers and content integrators to explore the services we have available and to understand how to access and use the NICE API. There are useful links to information on REST in [Appendix A](#).
6. The syndication feed for our guidance and NICE Pathways is currently available in 4 delivery formats:
 - Text/html
 - Application/atom+xml
 - Application/vnd.nice.syndication.services+json
 - Application/vnd.nice.syndication.services+xml
7. **Please note that access to NICE syndicated content delivered through the API will require someone with technical knowledge to interrogate the syndication feed and manage integration into your own systems and platform(s).** This knowledge should include an ability to work with .xml and consume .xml using a backend scripting technology. NICE is not able to provide support in writing code to consume the feeds but helpful links to online resources can be found in [Appendix A](#). In addition, paragraphs [15–21](#) offer advice on how to use the API from a technical perspective. This information will also be found via the Help link which appears in the top dark grey tab on all content pages accessed via the API.

What NICE content is available for syndication?

8. Subject to a licence agreement with NICE, third parties can currently use the syndication service to access two general categories of content. The available types of content within these categories are set out in [Table 1](#), with further detail in paragraphs 9–11. Links to individual listings of all available products on the NICE website will be found in [Appendix B](#).
 - NICE Guidance (including quality standards and information for the public)
 - NICE Pathways *¹

In addition, interest can be expressed in:

- Evidence Search *²

^{*1} The syndication of Pathways is currently only for the content and metadata. There is no specific provision that will help a third party with how to render the pathways, although the metadata would allow you to define it yourself.

^{*2} Applications are being considered but may be subject to consent being given by content providers depending on the applicant's proposed use case.

Table 1: Summary of content available for syndication

Available for syndication	Types of content
NICE Guidance	<ul style="list-style-type: none">• Clinical guidelines• Public health guidance• Diagnostics guidance• Medical technologies guidance• Technology appraisals guidance• Interventional procedures guidance• Social care guidance• Safe staffing guidance• Antimicrobial prescribing guidelines• Quality standards• Medicines practice guidelines• Highly specialised technologies• NICE advice documents• Information for the public
NICE Pathways	<ul style="list-style-type: none">• All NICE Pathways
Expressions of interest	Types of content
Evidence Search	<ul style="list-style-type: none">• Index of evidence-based information drawing on multiple sources

9. **Current NICE guidance:** includes all clinical guidelines, public health guidance, social care guidance, diagnostics guidance, medical technologies guidance, technology appraisal guidance, interventional procedures guidance, quality standards, Antimicrobial prescribing guidelines and 'information for the public' (summaries of NICE guidance written in everyday language for patients, carers and the general public).

10. **Current NICE Pathways:** present our published guidance in interactive, topic-based diagrams. [NICE Pathways](#) are available online, and provide quick and easy access to all NICE guidance, quality standards, patient information and implementation tools. **NICE Pathways are not intended as complete ‘care pathways’ for a particular condition.** Each pathway allows the user to see an overview of NICE guidance on a topic, explore NICE recommendations in detail, and access the support materials and the underpinning evidence base. **Please note that although the content is available through syndication the method used to present the source information in the pathways format (the ‘rendering’) is not currently part of this service.**
11. **Evidence Search:** a unique index of authoritative evidence-based information selected manually and through automation against set criteria. Evidence Search draws on over 1000 trustworthy and accredited sources including: the British National Formulary, Clinical Knowledge Summaries, SIGN, the Cochrane Library, the Royal Colleges, Social Care Online and GOV.UK

How to apply

12. Applications can be submitted at any time and each application is considered on its own merits. To apply you will need to complete an application form, which can be found [here](#), and agree to the generic set of terms set out in one of the two licence formats. Applications should be sent to syndication@NICE.org.uk and are considered on a monthly basis. The outline syndication process is illustrated in [Figure 1](#), and the three types of licensing arrangement are summarised in [Table 2](#).

Figure 1 The syndication process

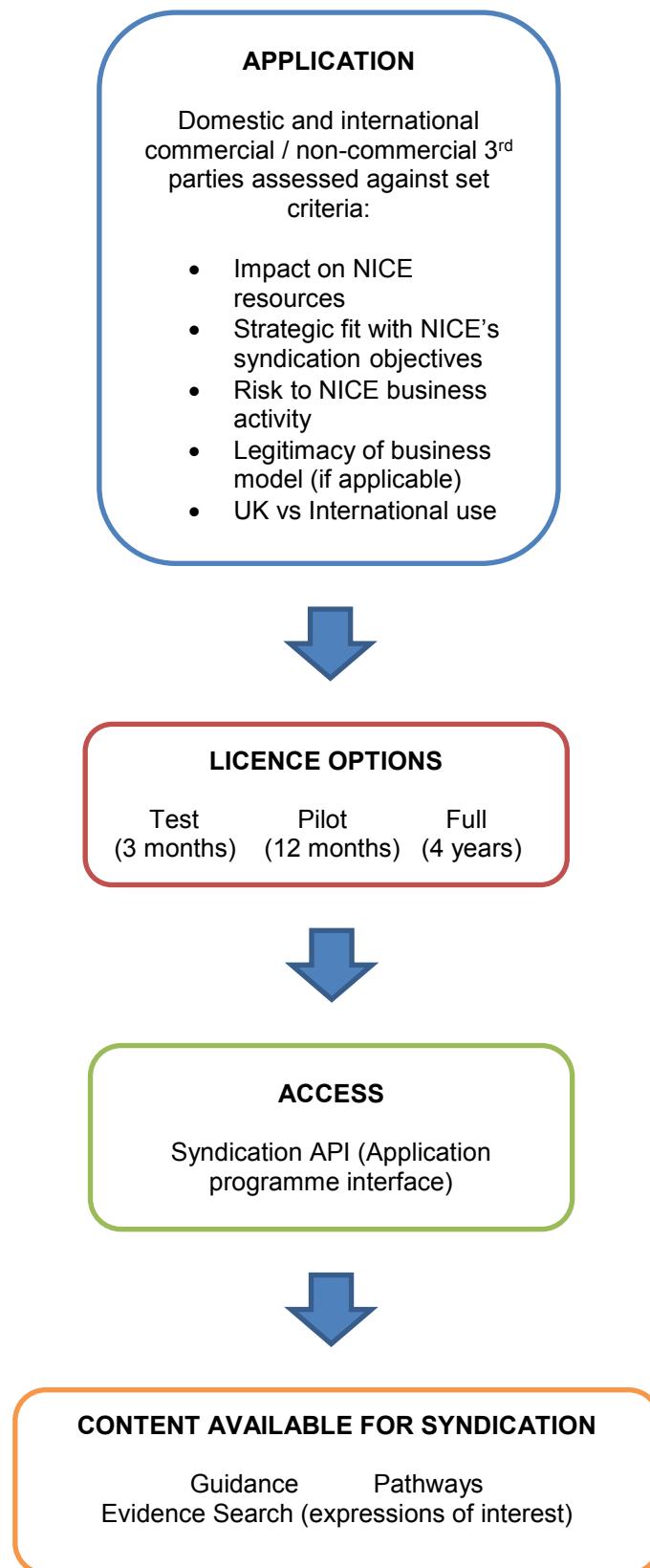


Table 2 Summary of NICE syndication licences

Licence type	Duration	Purpose	Service fee
Full	4 years, with an option to renew for 2 sequential 12-month periods, subject to agreement in writing	permits use of NICE content in live products, systems and platforms	See Table 3
Pilot	12 months maximum	allows the applicant to test the market with a newly developed product	See Table 3
Test	3 months	allows the applicant to test the feasibility of developing a product from both a content and technical perspective	no fee is applicable

- Both the full and pilot licences are identical in format, with a pilot licence allowing the applicant a longer time period to evaluate both the content and their product with potential users than the 'test' licence below. The generic licence can be found [here](#).
- In certain circumstances NICE is able to issue a short-term 'test' licence for initial evaluation purposes. Issuing a 'test' licence is also be dependent on a review of an initial application and is for a maximum of 3 months. The generic 'test' licence can be found [here](#).
- Applications must contain details on the proposed use(s) and can be accompanied by supporting information such as screen shots.

Table 3 Overseas syndication charges (including access to updates)

Pilot licence (12 months)	£40,000.00
Full licence (4 years)	Year 1: £40,000.00 Year 2: £40,000.00 Year 2: £40,000.00 Year 2: £40,000.00

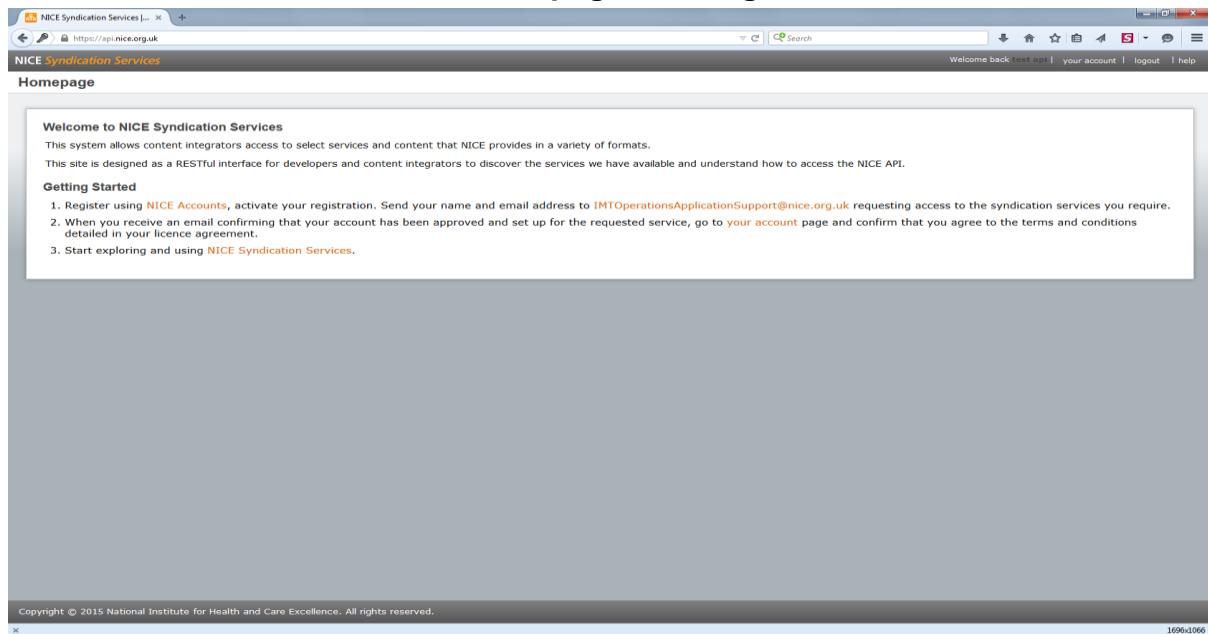
Under the terms of the NICE UK Open Content Licence there is no fee for the provision of content via the NICE Syndication Service provided its use is restricted the United Kingdom only.

<https://www.nice.org.uk/re-using-our-content/uk-open-content-licence>

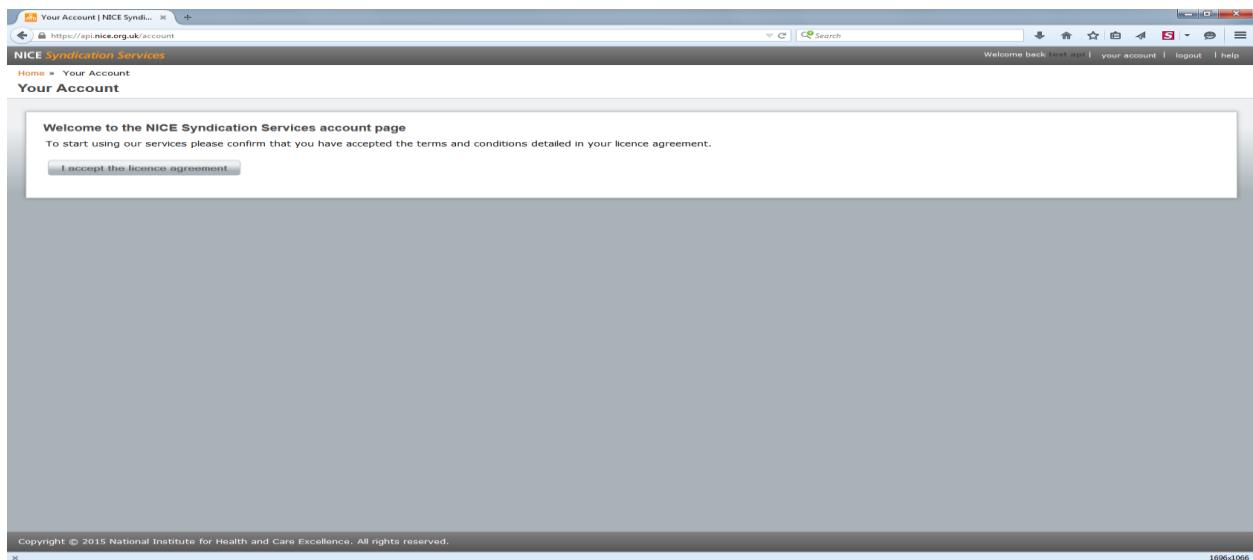
Getting started once your application for a test / pilot / full licence has been approved

13. Once you have been notified that your application has been approved, you will need to register using NICE Accounts and then activate your registration. Please send your name and email address (or the name and email address of the person who will be using the service) to IMTOperationsApplicationSupport@nice.org.uk requesting access to the syndication services you require.
14. When you receive an email confirming that your registration has been set up for the services you have requested and your API key is 'live', go to the 'Your account' page to access the service and to confirm you accept the terms and conditions of your licence agreement. **You will only have to do this once and the steps are set out in screen shots 1–4 below.** Your unique API key will then give you access to the specific content categories covered by your licence once you have entered your email address and password on subsequent occasions (see [screen shot 4](#)).

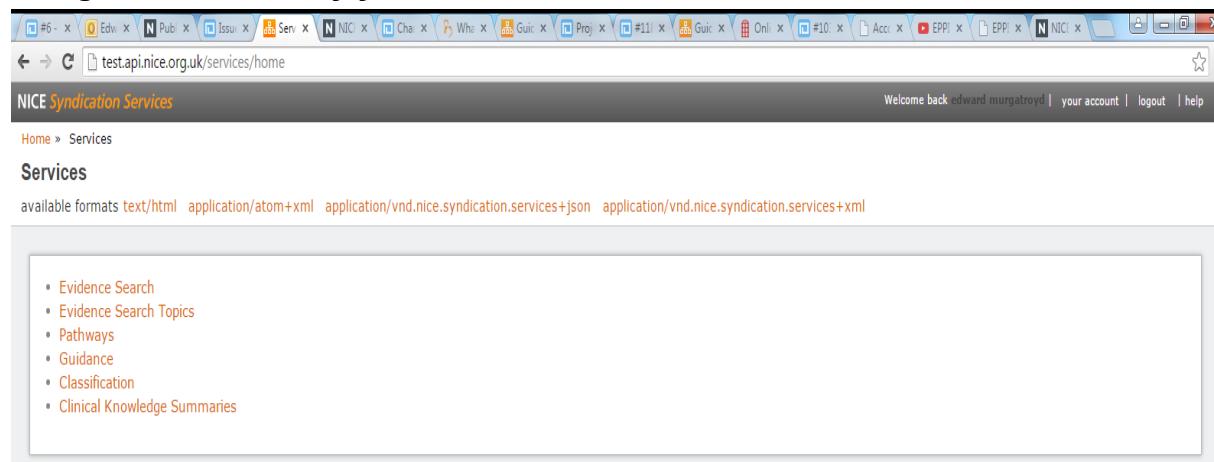
Screen shot 1: New accounts – first page after log-in



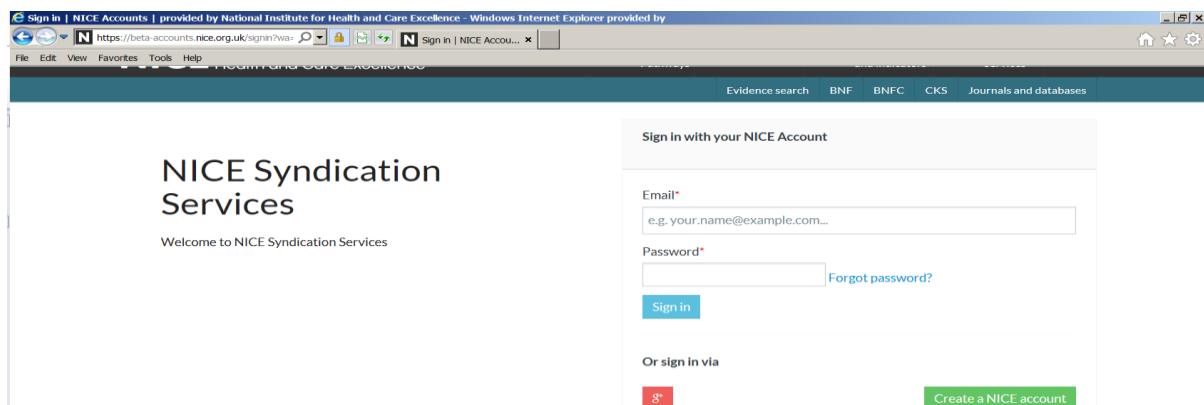
Screen shot 2: Logging on to your account page you will see the following



Screen shot 3: Click on 'I accept the licence agreement' and you will see those categories covered by your licence



Screen shot 4: When logging-on on subsequent occasions you will go straight to the screen shown in step 1; by clicking on 'Your accounts' you will then be taken to the screen below requiring an email address and password



The screenshot shows a web browser window with the title 'Sign in | NICE Accounts | provided by National Institute for Health and Care Excellence - Windows Internet Explorer provided by'. The address bar shows 'https://beta.accounts.nice.org.uk/signin?wa...'. The page content is a 'Sign in with your NICE Account' form. It includes fields for 'Email*' (placeholder 'e.g. your.name@example.com...') and 'Password*'. Below the password field is a 'Forgot password?' link. A 'Sign in' button is at the bottom of the form. Below the form is a section titled 'Or sign in via' with a 'g+' button. To the right of this section is a green 'Create a NICE account' button. At the top of the page, there is a navigation bar with links for 'Evidence search', 'BNF', 'BNFC', 'CKS', and 'Journals and databases'. The main heading 'NICE Syndication Services' is displayed above the sign-in form. The footer of the page contains the NICE logo and links to 'Pathways', 'Guidance', 'Standards & Indicators', and 'Evidence services'. It also includes links for 'About', 'Accessibility', 'Freedom of information', 'Contact Us', 'Glossary', 'Terms and conditions', and 'Subscribe'. The footer also states 'Copyright © 2014 National Institute for Health and Care Excellence. All rights reserved.' and 'Follow Us' with a Twitter icon.

Using your API key to explore NICE content available through syndication

15. You can start to explore the NICE Syndication Service by using the menus and clicking on the hyperlinks. The easiest way to find out what resources the NICE Syndication Service has available is to use a web browser. Simply start at the top-level of the service and follow the links to the desired resource.
16. Where a resource is available in multiple formats ('representations' in the idiom of REST), a link to each format will be displayed at the top of the page. The media type of the response has been specified by suffixing the URI with the appropriate file extension: ".json" for application/json, ".xml" for application/xml, and so on. This file extension support has been implemented primarily for the convenience of being able to provide a link to different representations from a web page. The preferred method of content negotiation is by adding [HTTP Accept header](#) to the request identifying the desired [media type](#).

Identifying resource types

17. Most of the resources that can be found in the API contain links to other related resources. To identify what type of resource is being linked to, all links include a "rel" or "relationship" attribute – an idea that has been borrowed from the [Atom specification](#).
18. In the short extract from the Guidance resource below you can see 5 linked resources, the first, "self", gives the URI of the current resource. The remaining 4 identify other resource types from the Guidance hierarchy.

```
<Guidance xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Title>Guidance</Title>

  <Links>

    <Link rel="self" uri="https://api.nice.org.uk/services/guidance" title="Guidance" />

    <Link rel="/linkrels/guidance/by-date/helper"
      uri="https://api.nice.org.uk/services/guidance/by-date" title="Guidance By Date"
      />

    <Link rel="/linkrels/guidance/index"
      uri="https://api.nice.org.uk/services/guidance/index" title="Guidance Index" />
      <Link rel="/linkrels/guidance/programmes"
        uri="https://api.nice.org.uk/services/guidance/programmes" title="Guidance Programmes" />
        <Link rel="/linkrels/guidance/taxonomy"
          uri="https://api.nice.org.uk/services/guidance/taxonomy" title="Taxonomy" />
```

```
</Links>  
</Guidance>
```

A complete list of the relationship types used within the NICE Syndication Service API can be found on [the link relationships page](#).

Making requests

19. To access the NICE Syndication Service from code (as opposed to our website) you will need to add 2 headers to your HTTP request:
 - **API-Key** with your API key as the associated value (this can be found on your 'account' and is also embedded into the code samples in HTML view of every resource).
 - **Accept** with the value set to the desired media type(s) ([media type quality](#) is supported).

To determine the current state of a resource and to help minimise the amount of data transferred between your application and the syndication service we support [ETAGS](#), [Last-modified headers](#) and [HEAD](#) requests.

Response codes

20. The response codes issued by the syndication service and possible reasons for them are shown below:
 - **200 OK** – the request was processed successfully.
 - **304 Not Modified** – the resource has not changed since the date specified in the request's [If-Modified-Since](#) header, or the ETAG matches the value of the request's [If-None-Match](#) header.
 - **400 Bad Request** – as well as being issued when a request is malformed request, this will also be sent when a query string parameter or parameterised URI segment is in an unexpected format or out of range.
 - **401 Unauthorized** – the API key was either not sent in the request, not recognized or was recognized but is not currently active.
 - **403 Forbidden** – the API key was recognised but doesn't allow you to access the requested resource.
 - **404 Not Found** – the requested URI doesn't exist within the syndication service or the resource identified by the URI is not present.
 - **406 Not Acceptable** – the media type requested is not available for this resource.
 - **410 Gone** – the resource is no longer available

- **500 Internal Server Error** – the server encountered an error while trying to process the request.

Using the API to build a widget

21. The files below contain an example of a javascript widget that uses the syndication service API to perform a search on Evidence Search.

The responsibilities of the 'bootstrapper' are to ensure that widget's dependencies are loaded (jQuery in this case), to create the widget's styling and html elements, and then to load the main widget code.

The widget code is divided into main modules: a namespacing helper, the search functionality, and the user-interface code.

- [Bootstrapper](#)
- [Main widget code](#)

To embed the widget in a page, simply add the script element below at the point where the widget is to be rendered.

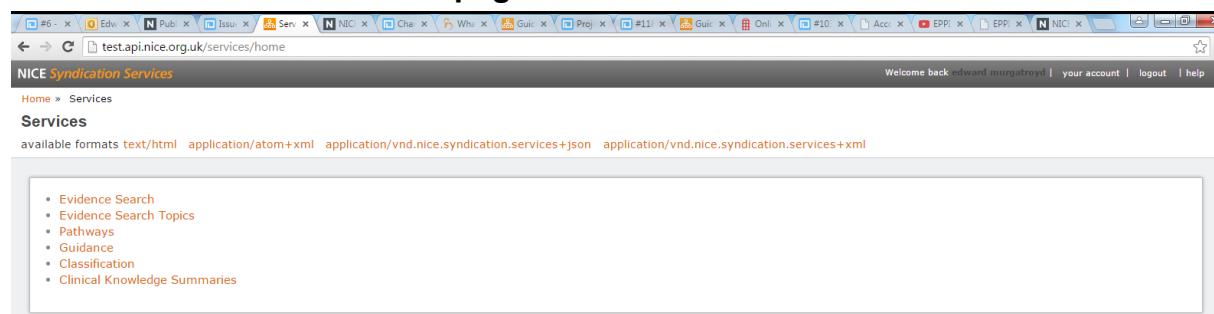
```
<script type="text/javascript"
       src="/content/widget/bootstrapper.js">
  data-nice-api-key="[Your API key here]"</script>
```

Your account and the content we offer for syndication

22. The NICE Syndication Service covers a number of categories, 2 of which are currently available for external syndication. 'Information for the public' forms part of the guidance category. 'Evidence Search' content is considered on request. All categories appear in the illustrative [screen shot 5](#) and are listed below. The services applicable to you under the terms of your licence will be displayed when you log in.

- Guidance
- Pathways

Screen shot 5: Your account page



23. Once you have logged in, you will have the opportunity to navigate the content in different ways. Please see the following sections on how to do this. Our requirements relating usage statistics and attribution will be found in [Appendix D](#) and [Appendix E](#) respectively.

GUIDANCE

24. This section explains the structure of the API for the various types of guidance NICE syndicates. It sets out a number of ways to help you navigate the content and offers options to enable you to extract the content you need.
25. All 'guidance' can be searched for, and selected by, one of the following 5 options with hyperlinks enabling you to drill down into the content (see [screen shot 6](#)). The 4 available delivery formats appear at the top of each page for all content, and like the accompanying page text you will see are fully editable. Three examples of code samples on how to call the API appear at the foot of each page – curl, JavaScript, c#.
 - Guidance by date
 - Guidance index
 - Guidance programmes
 - Guidance taxonomy (comprises revised and expanded categories)
 - Guidance structured documents by date
 - IFP Index (see [paragraphs 42–43](#))
26. Please note that the 'guidance programmes' and 'guidance taxonomy' feeds marked 'deprecated' which appear in the screen shot are 'live' in the API. **These feeds are marked 'deprecated' because they contain out-of-date information and are present for the purposes of legacy support only. In time these feeds will be retired and we strongly advise that you use 'Guidance Programmes' and 'Guidance Taxonomy'. These latest versions contain all historic content as well as all new and updated content.**
 - *Guidance programmes (do not use – marked as 'deprecated')*
 - *Guidance taxonomy (do not use use – marked as 'deprecated')*

Screen shot 6: entry points for searching guidance

Option 1 for selecting guidance: Guidance by date

27. Guidance is searched for by entering a time period (see [screen shot 7](#)) which will produce a list of all guidance issued by NICE during this period (not alphabetical but user can select and create sub-lists via a key word search). The date format to be used is 'dd-mm-yyyy'. Clicking on 'Guidance by date' will take you through to generic product page from which you will be able to access all selection options and available formats. This includes the 'structured' result option that is available in [Option 5](#).

Screen shot 7: Guidance by date

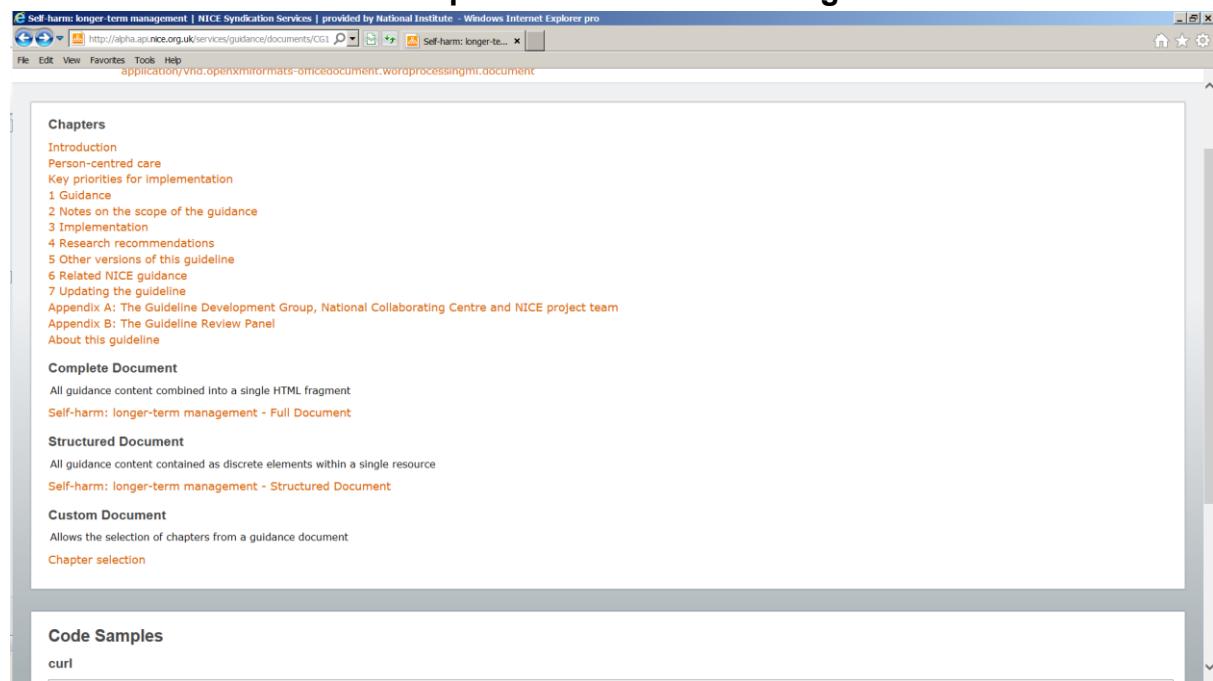
28. Individual guidance is then broken down and can be accessed by one of 4 routes:

- by **chapters** (eg. 'Self- harm' [screen shot 8](#)). Clicking on a chapter section takes you through to text with links and code samples. For instance, the guidance link will take you through to 5 linked recommendation sections, which in turn link through to specific recommendations in text with links to the full guidance, related guidance and external sources. By selecting one of the 4 delivery formats at the top of the page, updated content from the feed will automatically be downloaded to the system you are using to ingest content.
- by **complete document** – with the content forming a single HTML fragment with links to other documents and code samples. Again, by

selecting one of the 4 delivery formats, updated content from the feed will automatically be downloaded to the system you are using to ingest content.

- by **structured document** – all guidance content contained as discrete elements within a single resource with links, text and code samples. The structured document has distinct chapter and section xml tags, whereas the complete document (above) does not have these tags. Again, by selecting one of the 4 delivery formats, updated content from the feed will automatically be downloaded to the system you are using to ingest content.
- by **custom document** – allows the selection of chapters from a guidance document returning chapter headings with links, text via a tick box menu and code samples (see [screen shot 9](#)).

Screen shot 8: Guidance chapter selection self-harm guideline



Self-harm: longer-term management | NICE Syndication Services | provided by National Institute - Windows Internet Explorer pro

http://alpha.apa.nice.org.uk/services/guidance/documents/CG1

File Edit View Favorites Tools Help

application/vnd.openxmlformats-officedocument.wordprocessingml.document

Chapters

- Introduction
- Person-centred care
- Key priorities for implementation
- 1 Guidance
- 2 Notes on the scope of the guidance
- 3 Implementation
- 4 Research recommendations
- 5 Other versions of this guideline
- 6 Related NICE guidance
- 7 Updating the guideline

Appendix A: The Guideline Development Group, National Collaborating Centre and NICE project team

Appendix B: The Guideline Review Panel

About this guideline

Complete Document

All guidance content combined into a single HTML fragment

[Self-harm: longer-term management - Full Document](#)

Structured Document

All guidance content contained as discrete elements within a single resource

[Self-harm: longer-term management - Structured Document](#)

Custom Document

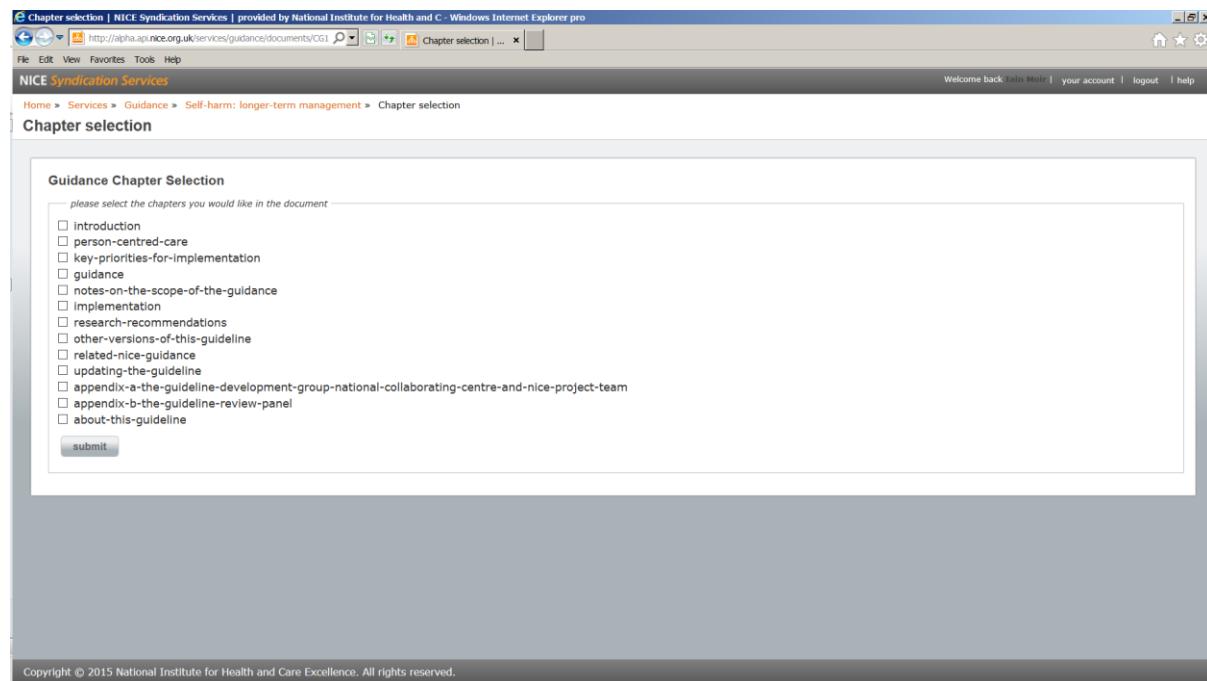
Allows the selection of chapters from a guidance document

[Chapter selection](#)

Code Samples

```
curl
```

Screen shot 9: Guidance chapter selection through custom document for self-harm guideline



Option 2 for selecting guidance: Guidance index

29. The guidance index comprises a substantial listing of all current guidance by individual guidance title (not alphabetical but user can select and create sub-lists via a key word search).
30. The guidance itself is then broken down as above with identical entry points:
 - by **chapters** (eg. 'Self- harm' [screen shot 8](#)). Clicking on a chapter section takes you through to text with links and code samples. For instance, the guidance link will take you through to 5 linked recommendation sections, which in turn link through to specific recommendations in text with links to the full guidance, related guidance and external sources. By selecting one of the 4 delivery formats at the top of the page, updated content from the feed will automatically be downloaded to the system you are using to ingest content.
 - by **complete document** – with the content forming a single HTML fragment with links to other documents and code samples. Again, by selecting one of the 4 delivery formats, updated content from the feed will automatically be downloaded to the system you are using to ingest content.
 - by **structured document** – all guidance content contained as discrete elements within a single resource with links, text and code samples. The structured document has distinct chapter and section xml tags, whereas the complete document (above) does not have these tags. Again, by

selecting one of the 4 delivery formats, updated content from the feed will automatically be downloaded to the system you are using to ingest content.

- by **custom document** – allows the selection of chapters from a guidance document returning chapter headings with links, text via a tick box menu and code samples (see [screen shot 9](#)).

Option 3 for selecting guidance: Guidance programmes

31. From January 2015 a feed for guidance programmes is available which links to all current and forthcoming guidance. This is structured as follows and includes all content previously available under the original 'Guidance programmes – deprecated'. Certain categories – such as Cancer service guidance, generic guidance DRAFT – may appear to be empty. These categories contain 'hidden' templates for internal NICE use only and are marked with an * for identification purposes.

- Cancer service guidance*
- Clinical guideline
- Diagnostics guidance
- Highly specialised technologies
- Interventional procedures guidance*
- Medical technology guidance
- Medicines practice guidance
- NICE guideline
- Patient safety guidance*
- Public health guideline
- Quality standard
- Safe staffing guideline
- Social care guideline
- Technology appraisal guidance
- NICE interventional procedure guidance*
- Patient info tests*
- New medicines rapid reviews*
- Evidence commentary*
- Good practice guidance*

- Generic guidance DRAFT*
- Safe staffing guideline*
- Surveillance report*

32. Within each of the above programmes, titles are listed by topic which will then break down into chapters, complete chapters, structured document and custom document as per the 'Self harm' sample screen shots above. The user may create sub-lists via a key word search.

33. by **chapters** (eg. 'Self- harm' [screen shot 8](#)). Clicking on a chapter section takes you through to text with links and code samples. For instance, the guidance link will take you through to 5 linked recommendation sections, which in turn link through to specific recommendations in text with links to the full guidance, related guidance and external sources. By selecting one of the 4 delivery formats at the top of the page, updated content from the feed will automatically be downloaded to the system you are using to ingest content.

34. by **complete document** – with the content forming a single HTML fragment with links to other documents and code samples. Again, by selecting one of the 4 delivery formats, updated content from the feed will automatically be downloaded to the system you are using to ingest content.

35. by **structured document** – all guidance content contained as discrete elements within a single resource with links, text and code samples. The structured document has distinct chapter and section xml tags, whereas the complete document (above) does not have these tags. Again, by selecting one of the 4 delivery formats, updated content from the feed will automatically be downloaded to the system you are using to ingest content.

36. by **custom document** – allows the selection of chapters from a guidance document returning chapter headings with links, text via a tick box menu and code samples (see [screen shot 9](#)).

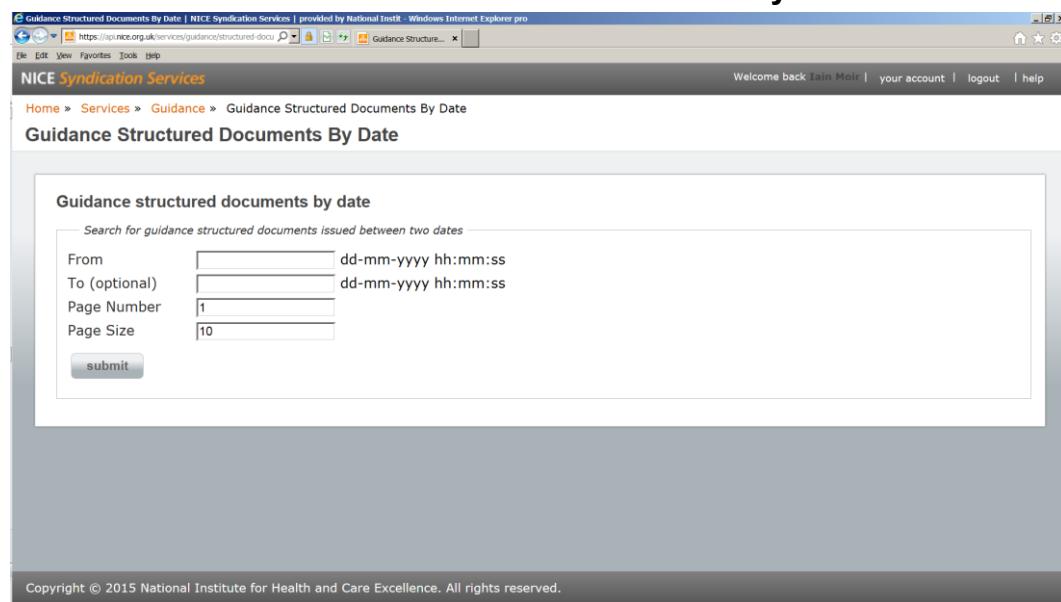
Option 4 for selecting guidance: Guidance taxonomy

37. The 'new' taxonomy feed is available for NICE guidance outputs and incorporates all outputs originally listed under the 'Guidance taxonomy – deprecated' feed. The previous 3 categories which formed the original 'Guidance taxonomy category' have now been replaced by 7 new categories which are: conditions and diseases; health protection; level test 1 term; lifestyle and wellbeing; population groups; service delivery, organisation and staffing; and settings. These categories absorb the historic categories and a breakdown of each can be found in [Appendix C](#).

Option 5 for selecting guidance: Guidance structured documents by date

38. Search for guidance structured documents issued between two dates (see [screen shot 10](#)). The links take you through to the guidance issued within the date parameters you have entered. Clicking on an individual piece of guidance then takes you through to the structured document itself.

Screen shot 10: Guidance structured documents by date

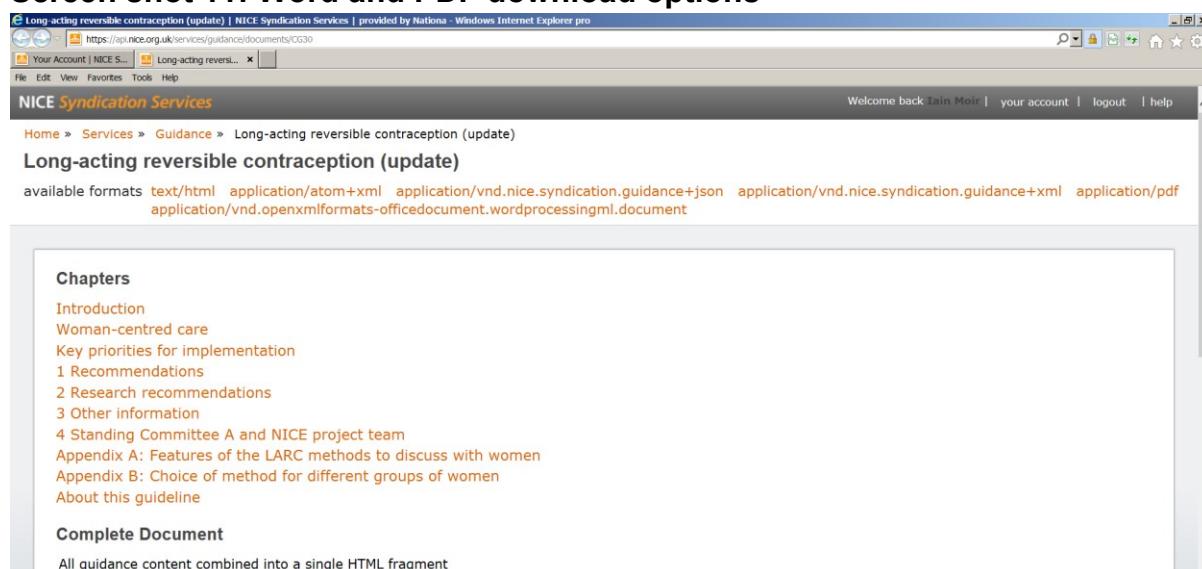


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Downloading guidance in either Word or PDF formats

39. On individual main guidance summary pages only you will see in the available formats bar at the top of the page that there is the option to download content in either Word or PDF formats (see [screen shot 11](#)). This mirrors what is offered on the NICE website.

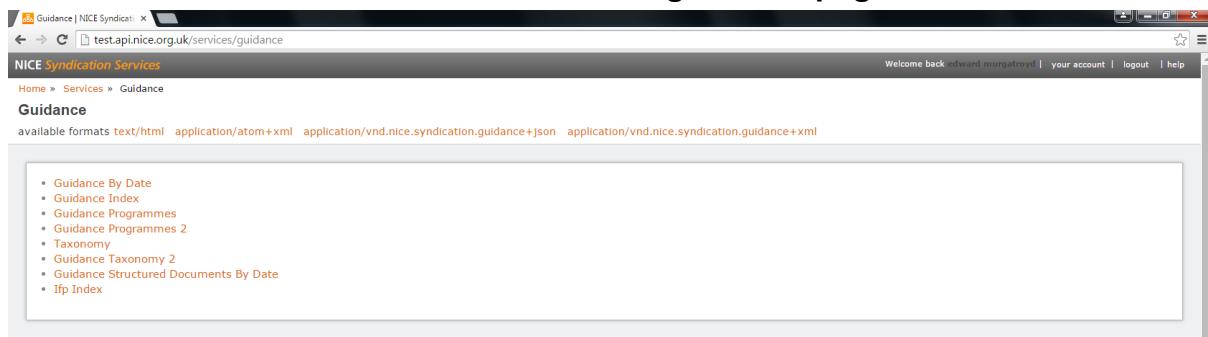
Screen shot 11: Word and PDF download options



INFORMATION FOR THE PUBLIC (in Guidance Category)

40. Most NICE guidance documents are accompanied by summaries written in everyday language for patients, carers and the general public (see [Table 1](#)). This content can be accessed from the 'Information for the public' index (IFP) (see [screen shot 12](#)) through to the complete listing of IFPs available with links through to specific content as illustrated in [screen shot 13](#).

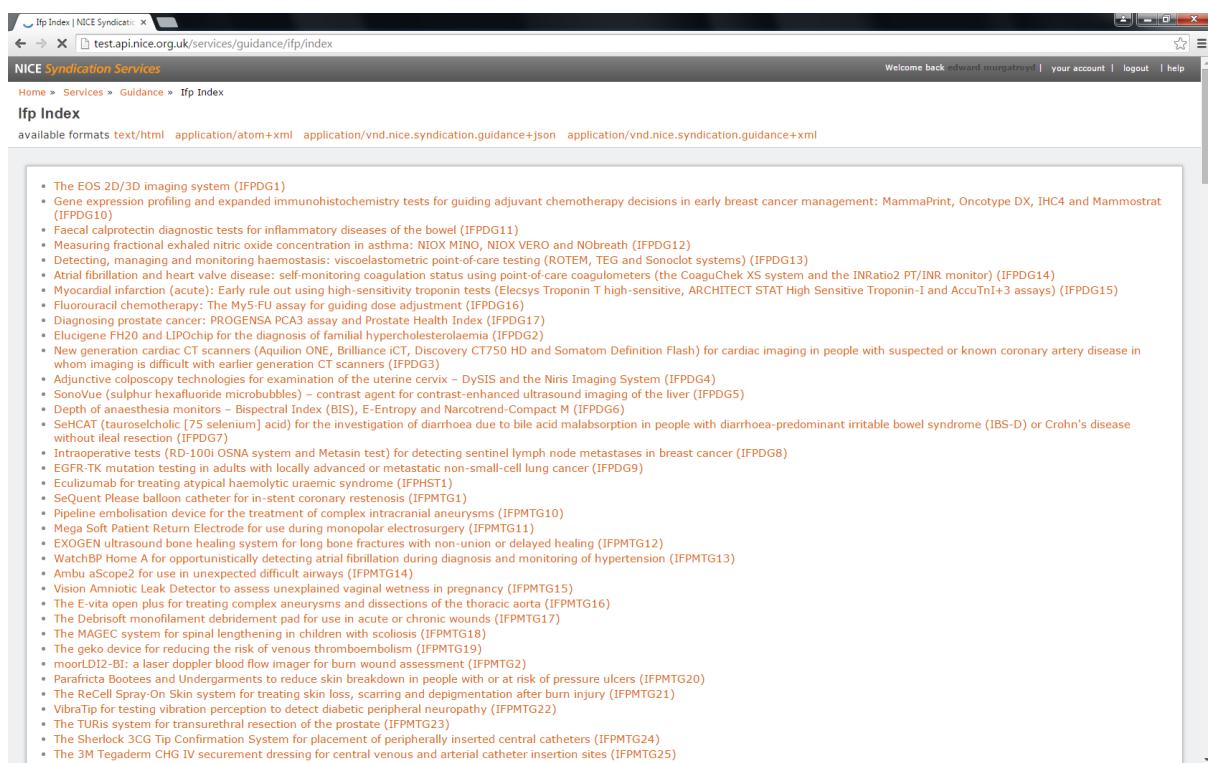
Screen shot 12: access to IFP content from guidance page



The screenshot shows a computer browser window with the following details:

- Address bar:** test.api.nice.org.uk/services/guidance
- Page Title:** NICE Syndication Services
- Header:** Welcome back edward.murgatroyd | your account | logout | help
- Page Content:** Guidance
available formats text/html application/atom+xml application/vnd.nice.syndication.guidance+json application/vnd.nice.syndication.guidance+xml
- Left sidebar:** Guidance By Date, Guidance Index, Guidance Programmes, Guidance Programmes 2, Guidance Programmes 2, Taxonomy, Guidance Taxonomy 2, Guidance Structured Documents By Date, Ifp Index

Screen shot 13: the IFP Index



The screenshot shows a computer browser window with the following details:

- Address bar:** test.api.nice.org.uk/services/guidance/Ifp/index
- Page Title:** NICE Syndication Services
- Header:** Welcome back edward.murgatroyd | your account | logout | help
- Page Content:** Home > Services > Guidance > Ifp Index
available formats text/html application/atom+xml application/vnd.nice.syndication.guidance+json application/vnd.nice.syndication.guidance+xml
- List of IFPs:** A very long list of IFP entries, including:
 - The EOS 2D/3D imaging system (IFPDG1)
 - Gene expression profiling and expanded immunohistochemistry tests for guiding adjuvant chemotherapy decisions in early breast cancer management: MammaPrint, Oncotype DX, IHC4 and Mammostrat (IFPDG10)
 - Faecal calprotectin diagnostic tests for inflammatory diseases of the bowel (IFPDG11)
 - Measuring fractional exhaled nitric oxide concentration in asthma: NIOX MINO, NIOX VERO and NObreath (IFPDG12)
 - Detecting, managing and monitoring haemostasis: viscoelastometric point-of-care testing (ROTEM, TE6 and Sonoclot systems) (IFPDG13)
 - Atrial fibrillation and heart valve disease: self-monitoring coagulation status using point-of-care coagulometers (the CoaguChek XS system and the INRatio2 PT/INR monitor) (IFPDG14)
 - Myocardial infarction (acute): Early rule out using high-sensitivity troponin tests (Elecsys Troponin T high-sensitive, ARCHITECT STAT High Sensitive Troponin-I and AccuTnI+3 assays) (IFPDG15)
 - Fluorouracil chemotherapy: The My5-FU assay for guiding dose adjustment (IFPDG16)
 - Diagnosing prostate cancer: PROGENSA PCA3 assay, and Prostate Health Index (IFPDG17)
 - Elucigene FH20 and LIPochip for the diagnosis of familial hypercholesterolaemia (IFPDG2)
 - New generation cardiac CT scanners (Aquilion ONE, Brilliance ICT, Discovery CT750 HD and Somatom Definition Flash) for cardiac imaging in people with suspected or known coronary artery disease in whom imaging is difficult with earlier generation CT scanners (IFPDG3)
 - Adjunctive colposcopy technologies for examination of the uterine cervix - DysSIS and the Nirs Imaging System (IFPDG4)
 - SonoVue (sulphur hexafluoride microbubbles) - contrast agent for contrast-enhanced ultrasound imaging of the liver (IFPDG5)
 - Depth of anaesthesia monitors - Bispectral Index (BIS), E-Entropy and Narcotrend-Compact M (IFPDG6)
 - SeHCAT (tauroselcholic [75 selenium] acid) for the investigation of diarrhoea due to bile acid malabsorption in people with diarrhoea-predominant irritable bowel syndrome (IBS-D) or Crohn's disease without ileal resection (IFPDG7)
 - Intraoperative tests (RD-1001 OSNA system and Metastis test) for detecting sentinel lymph node metastases in breast cancer (IFPDG8)
 - EGFR-TK mutation testing in adults with locally advanced or metastatic non-small-cell lung cancer (IFPDG9)
 - Ecilizumab for treating atypical haemolytic uraemic syndrome (IFPHST1)
 - SeQuent Please balloon catheter for in-stent coronary restenosis (IFPMTG1)
 - Pipeline embolisation device for the treatment of complex intracranial aneurysms (IFPMTG10)
 - Mega Soft Patient Return Electrode for use during monopolar electrosurgery (IFPMTG11)
 - EXOGEN ultrasound bone healing system for long bone fractures with non-union or delayed healing (IFPMTG12)
 - WatchBP Home A for opportunistically detecting atrial fibrillation during diagnosis and monitoring of hypertension (IFPMTG13)
 - Ambu aScope2 for use in unexpected difficult airways (IFPMTG14)
 - Vision Amniotic Leak Detector to assess unexplained vaginal wetness in pregnancy (IFPMTG15)
 - The E-vite open plus for treating complex aneurysms and dissections of the thoracic aorta (IFPMTG16)
 - The Debris monofilament debridement pad for use in acute or chronic wounds (IFPMTG17)
 - The MAGEC system for spinal lengthening in children with scoliosis (IFPMTG18)
 - The geko device for reducing the risk of venous thromboembolism (IFPMTG19)
 - moorLD12-B1: a laser doppler blood flow imager for burn wound assessment (IFPMTG20)
 - Parafractions Booties and Undergarments to reduce skin breakdown in people with or at risk of pressure ulcers (IFPMTG20)
 - The ReCell Spray-On Skin system for treating skin loss, scarring and depigmentation after burn injury (IFPMTG21)
 - VibraTip for testing vibration perception to detect diabetic peripheral neuropathy (IFPMTG22)
 - The TURis system for transurethral resection of the prostate (IFPMTG23)
 - The Sherlock 3CG Tip Confirmation System for placement of peripherally inserted central catheters (IFPMTG24)
 - The 3M Tegaderm CHG IV securement dressing for central venous and arterial catheter insertion sites (IFPMTG25)

41. Alternatively, the following screen shots illustrate how you would navigate from an individual piece of guidance to the accompanying IFP ([screen shot 14](#)) and from the IFP back to the guidance ([screen shot 15](#)).

Screen shot 14: access from a guidance document to the IFP

The EOS 2D/3D imaging system

available formats text/html application/atom+xml application/vnd.nice.syndication.guidance+json application/vnd.nice.syndication.guidance+xml application/pdf application/vnd.openxmlformats-officedocument.wordprocessingml.document

Chapters

- 1 Recommendations
- 2 The technology
- 3 Clinical need and practice
- 4 The diagnostic tests
- 5 Outcomes
- 6 Considerations
- 7 Recommendations for further research
- 8 Implementation
- 9 Related NICE guidance
- 10 Review

Appendix A Schematic representation of the modelling approach
 Appendix B: Diagnostics Advisory Committee members and NICE project team
 Appendix C: Sources of evidence considered by the Committee
 About this guidance

Complete Document
 All guidance content combined into a single HTML fragment
[The EOS 2D/3D imaging system - Full Document](#)

Structured Document
 All guidance content contained as discrete elements within a single resource
[The EOS 2D/3D imaging system - Structured Document](#)

Custom Document
 Allows the selection of chapters from a guidance document
[Chapter selection](#)

Information for the Public
[The EOS 2D/3D imaging system](#)

Code Samples

Screen shot 15: access from an IFP back to the main guidance

You replied to this message on 24/07/2015 11:39.

From: Edward Murgatroyd
 To: [Join Moir](#)
 Cc:
 Subject: Better screen shot for IFPs

Sent: Fri 24/07/2015 11:37

[The EOS 2D/3D imaging system](#)

The EOS 2D/3D imaging system

available formats text/html application/atom+xml application/vnd.nice.syndication.guidance+json application/vnd.nice.syndication.guidance+xml application/pdf application/vnd.openxmlformats-officedocument.wordprocessingml.document

Chapters

Summary

Complete Document
 All guidance content combined into a single HTML fragment
[The EOS 2D/3D imaging system - Full Document](#)

Structured Document
 All guidance content contained as discrete elements within a single resource
[The EOS 2D/3D imaging system - Structured Document](#)

Custom Document
 Allows the selection of chapters from a guidance document
[Chapter selection](#)

Main Guidance
[The EOS 2D/3D imaging system](#)

Code Samples

NICE PATHWAYS

42. NICE Pathways visually represent all of NICE's recommendations on a topic, and give access to the products that NICE has produced to support implementation of its guidance. Linking to other relevant topics through interactive topic-based diagrams, NICE Pathways create a network of information for health and social care professionals, public health experts, those who commission or provide health and social care services, employers and members of the public. NICE Pathways comprise:

- clinical, public health, social care, safe staffing and medicines practice guidelines
- technology appraisals, interventional procedures, medical technology, diagnostics and highly specialised technologies guidance
- quality standards
- accompanying tools produced by NICE to support implementation.

43. Please note that the following categories of content are **NOT** included in NICE Pathways:

- indicators (Clinical Commissioning Group Outcomes Indicator Set and Quality and Outcomes Framework)
- newsletters and similar products
- content from the British National Formulary (BNF) or the British National Formulary for Children (BNFC) (requests to use BNF/BNFC content should be directed to the BNF)
- products in development (such as versions of guidance out for consultation).

44. Within each guidance programme all content is arranged in a uniform structure to ensure consistency for navigation purposes (where applicable). For instance, the primary categories for all **clinical guidelines** are:

- prevention
- assessment
- management
- ongoing care
- end of life

and the secondary categories are:

- service organisation
- staff training

For **public health** the primary categories are:

- national policy and strategy
- local strategy
- communication, planning and setting up the service
- service design
- delivering the service
- monitoring and evaluation

and the secondary category is:

- training

45. All NICE Pathways available through syndication are listed alphabetically by topic with links through to individual pathways. A [full list](#) of available pathways topics will be found on the NICE website.

Paths and content sections

46. When clicking on a particular topic in the API you will be taken through to a generic page comprising two sections – ‘**Paths**’ and ‘**Content**’ (see screen shot 16).

47. The ‘**Paths**’ section has specific links taking you through to landing node links and full path links, which themselves go through to layered navigation pages with further links allowing you to go back and forwards. Node pages link through to layered navigation link pages. Generally, nodes are the ‘stepping stones’ within a pathway that you pass through as you navigate the pathway. There are 4 different types of nodes used in the visual presentation of NICE Pathways on the [NICE website](#):

- landing node – the entry point into every path
- context node – all other text-based nodes in the path diagrams, aside from the landing node, are called context nodes. They can have reading pane content.
- map reference node – these nodes link to a different path

- node reference node – to link to a specific node on a different path.

48. The ‘**Content**’ section for individual NICE Pathways is structured generically as follows:

- Title
- About: text on what is covered by the Pathway; classification if required
- Updates to the pathway (type of update with dates and links where necessary)
- Patient-centred care: generic text with links to ‘codes of practice’ and UK legislation
- Short text: titling with text on what the pathway covers and updates with dates
- Sources: all relevant NICE guidance with links, dates and numerical identifier
- Related content, specifically:
 - Other NICE pathways with links
 - Relevant quality standards with links to all statements within individual quality standards, the text for each statement and supporting information appearing in full.
- Effective interventions library
- Implementation
 - Commissioning with links
 - Education and learning with links
- Service improvement and audit with links
- Information for the public with links
- Supporting information (for instance, if a drug is not recommended)
- Glossary
- Code samples

How to select a NICE pathway: using the Dementia pathway as an example

49. The following section is an example of a syndicated NICE Pathway structure using the ‘**Dementia**’ pathway. It demonstrates how to select content and navigate your way through a typical NICE pathway.

50. Clicking on the main Dementia link will take you through to the Paths and Content page (see [screen shot 16](#)). There are 3 paths for Dementia with the content section following underneath this:

- Dementia overview
- Dementia interventions
- Dementia diagnosis and assessment

Screen shot 16: Dementia 'paths' and 'contents' page



Dementia | NICE Syndication Services | provided by National Institute for Health and Care Excel - Windows Internet Explorer pro

File Edit View Favorites Tools Help

NICE Syndication Services

Welcome back Tain Moir | your account | logout | help

Home > Services > Pathways > Dementia

Dementia

available formats text/html application/atom+xml application/vnd.nice.syndication.pathways+json application/vnd.nice.syndication.pathways+xml

Paths

Dementia : Dementia overview
Dementia : Dementia interventions
Dementia : Dementia diagnosis and assessment

Content

Dementia HAI

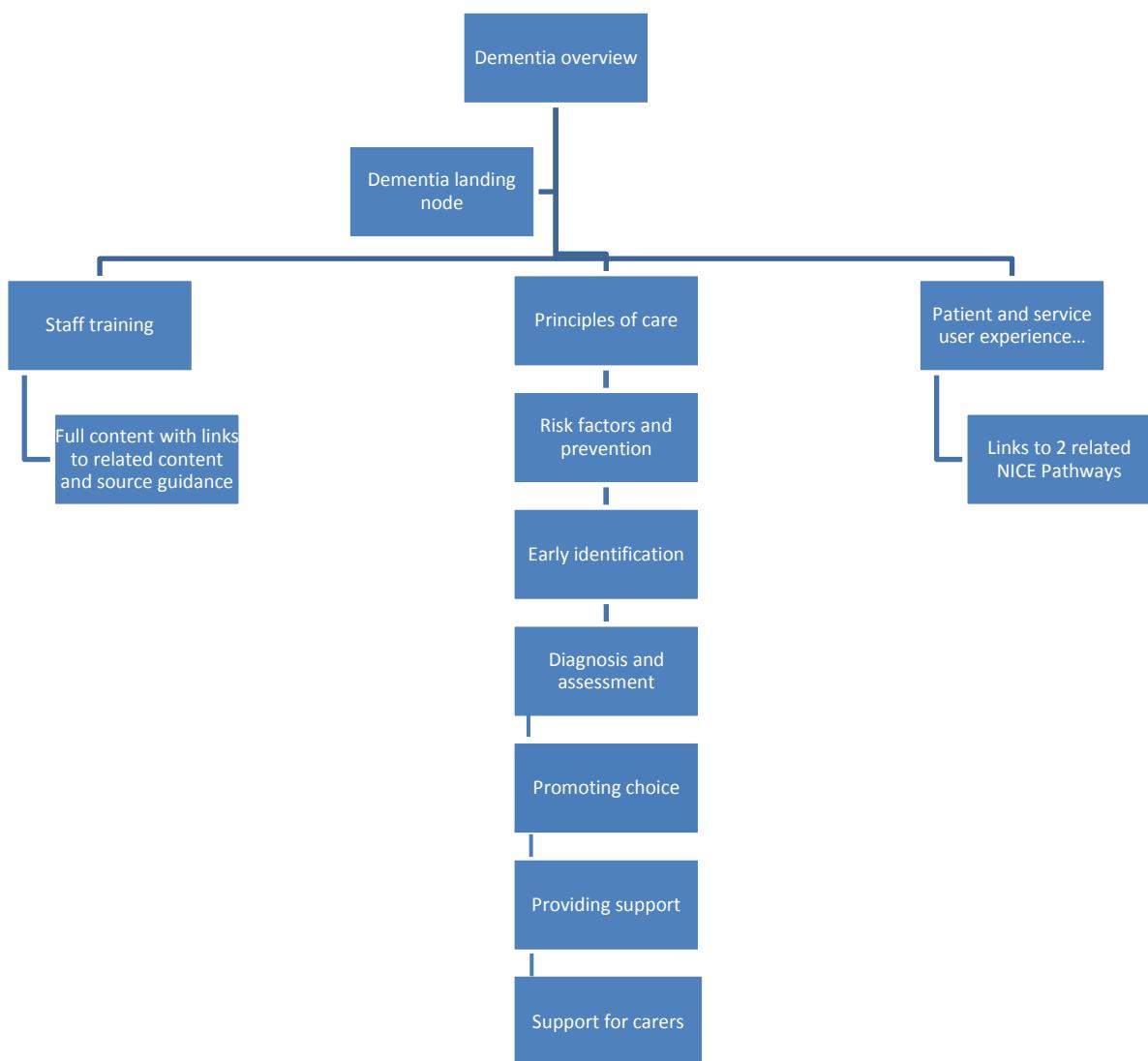
About

What is covered

This pathway covers supporting people with dementia and their carers in health and social care. Dementia is a progressive and largely irreversible clinical syndrome that is characterised by a widespread impairment of mental function. Although many people with dementia retain positive personality traits and personal attributes, as their condition progresses they can experience some or all of the following: memory loss, language impairment, disorientation, changes in personality, difficulties with activities of daily living, self-neglect, psychiatric symptoms (for example, apathy, depression or psychosis) and out-of-character behaviour (for example, aggression, sleep disturbance or disinhibited sexual behaviour). although the latter is not typically the

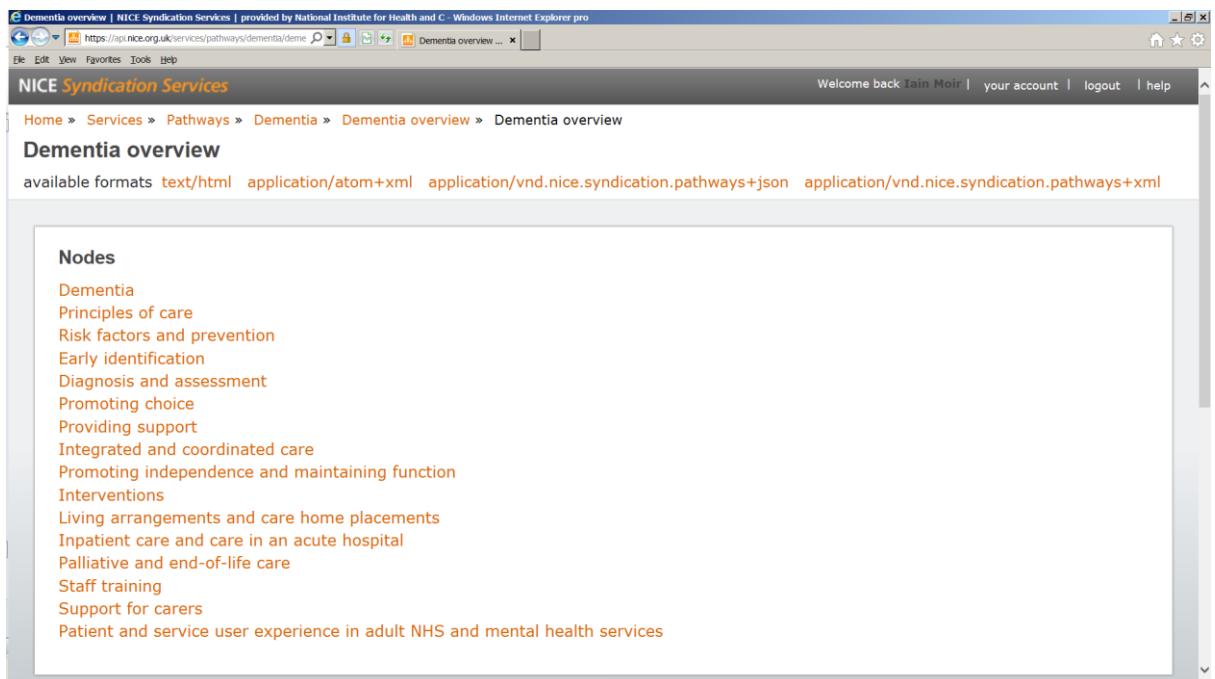
51. Using the 'Dementia overview' as an example, this path will take you through to 2 options: a landing node (with link) or a full path (with link). The landing node presents a number of layered options and by following the links you will be able to drill down to specific content. The layered links for the 'Dementia overview' are set out in [Figure 2](#) below, with similar navigation available for both the 'Dementia interventions' and 'Dementia diagnosis and assessment' paths.

Figure 2: Dementia 'overview' structure



52. The full path for the 'Dementia overview' takes you to a list of individual nodes (see [screen shot 17](#)). Again, a similar structure is used if you choose to follow the 'Dementia interventions' or 'Dementia diagnosis and assessment' paths.

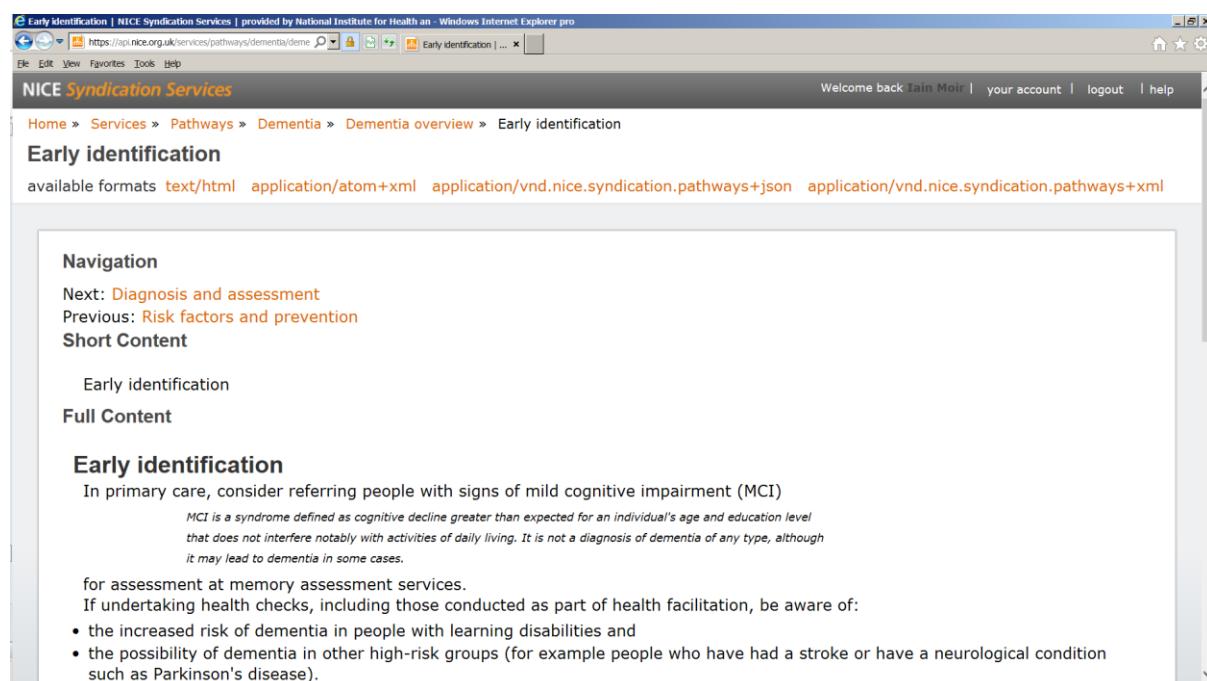
Screen shot 17: Dementia 'overview' structure – individual nodes



The screenshot shows a web browser window for 'Dementia overview | NICE Syndication Services'. The page title is 'Dementia overview'. The URL is <https://api.nice.org.uk/services/pathways/dementia/deme>. The page content is a list of 'Nodes' under the heading 'Dementia overview'. The nodes listed are: Dementia, Principles of care, Risk factors and prevention, Early identification, Diagnosis and assessment, Promoting choice, Providing support, Integrated and coordinated care, Promoting independence and maintaining function, Interventions, Living arrangements and care home placements, Inpatient care and care in an acute hospital, Palliative and end-of-life care, Staff training, Support for carers, and Patient and service user experience in adult NHS and mental health services.

53. Clicking on an individual node leads you through to a navigation page. For instance, clicking in 'Early identification' ([screen shot 18](#)) offers options to go forward to the 'Diagnosis and assessment' node or back to 'Risk factors and prevention'. Navigating forward through the link nodes offers further content options.

Screen shot 18: Dementia – example of an individual node – 'Early identification'



The screenshot shows a web browser window for 'Early identification | NICE Syndication Services'. The page title is 'Early identification'. The URL is <https://api.nice.org.uk/services/pathways/dementia/deme>. The page content includes a 'Navigation' section with 'Next: Diagnosis and assessment' and 'Previous: Risk factors and prevention'. Below this is a 'Short Content' section with the heading 'Early identification'. The main content area is titled 'Early identification' and contains the following text: 'In primary care, consider referring people with signs of mild cognitive impairment (MCI). MCI is a syndrome defined as cognitive decline greater than expected for an individual's age and education level that does not interfere notably with activities of daily living. It is not a diagnosis of dementia of any type, although it may lead to dementia in some cases.' Below this, it says 'for assessment at memory assessment services.' and 'If undertaking health checks, including those conducted as part of health facilitation, be aware of:'. A bulleted list follows: '• the increased risk of dementia in people with learning disabilities and' and '• the possibility of dementia in other high-risk groups (for example people who have had a stroke or have a neurological condition such as Parkinson's disease).'

Appendix A: online resources

The following websites have information on how to consume the feeds using various methods.

The RESTful interface

- [A introduction to REST](#)
- [Roy Fielding's essay on REST](#)

Writing code to consume feed

Outlines using .rss via .php - <http://forums.digitalpoint.com/showthread.php?t=7354>

Inserting HTML objects into pages, without iFrames - <http://aplus.rs/web-dev/insert-html-page-into-another-html-page/>

XMLHttp - http://www.w3schools.com/XML/xml_http.asp

Consuming .xml with .net - <http://www.wduffy.co.uk/blog/how-to-consume-an-xml-feed-in-aspnet-rss/comment-page-1/>

Basic info on .net and .xml - <http://articles.sitepoint.com/article/dot-net-xml>

Creating and consuming .xml in C# -

<http://www.exforsys.com/tutorials/asp.net/creating-and-consuming-xml-web-services-with-csharp.html>

Using .xml in .asp - <http://www.4guysfromrolla.com/webtech/101200-1.shtml>

Parsing .xml with .asp - <http://www.daniweb.com/web-development/asp/threads/30083>

Schema.org

- For further information on Schema.org please see <https://schema.org/>

Appendix B: current content listings on the NICE website available through syndication

The following links take you through to alphabetical lists of current product suites by content type on the NICE website by content type.

Guidance

Clinical guidelines: <http://www.nice.org.uk/guidance/published?type=cg>

Public health: <http://www.nice.org.uk/guidance/published?type=ph>

Technology appraisals: <http://www.nice.org.uk/guidance/published?type=ta>

Interventional procedures: <http://www.nice.org.uk/guidance/published?type=ipg>

Social care guidelines: <http://www.nice.org.uk/guidance/published?type=sc>

Safe staffing guidelines: <http://www.nice.org.uk/guidance/published?type=sq>

Quality standards: <http://www.nice.org.uk/guidance/published?type=qs>

Medical technologies: <http://www.nice.org.uk/guidance/published?type=mtg>

Diagnostics: <http://www.nice.org.uk/guidance/published?type=dg>

Medicines practice guidelines: <http://www.nice.org.uk/guidance/published?type=mpg>

Highly specialised technologies: <http://www.nice.org.uk/guidance/published?type=hst>

* Please note that new NICE guidance published since January 2015 will still be found within the original types of content. For instance, a clinical guideline published as new guidance will appear in the clinical guideline list; technology appraisal guidance appears in the technology appraisal's list, etc.

NICE Pathways

NICE Pathways: <http://pathways.nice.org.uk/>

Appendix C: new taxonomy categories

Conditions and diseases

- Blood and immune system conditions
- Cancer
- Cardiovascular conditions
- Chronic fatigue syndrome
- Diabetes and other endocrinial, nutritional and metabolic conditions
- Digestive tract conditions
- Ear, nose and throat conditions
- Eye conditions
- Fertility, pregnancy and childbirth
- Genetic conditions
- Gynaecological conditions
- Infections
- Injuries, accidents and wounds
- Kidney conditions
- Level 2 C and D test term
- Liver conditions
- Mental health and behavioural conditions
- Multiple long-term conditions
- Musculoskeletal conditions
- Neurological conditions
- Oral and dental health
- Respiratory conditions
- Skin conditions
- Urological conditions

Health protection

- Communicable diseases

- Drug misuse
- Environment

Level test 1 term

- Level test 2 term

Lifestyle and wellbeing

- Addiction
- Alcohol
- Behaviour change
- Diet, nutrition and obesity
- Drug misuse
- Mental health and wellbeing
- Oral and dental health
- Physical activity
- Sexual health
- Smoking and tobacco
- Sunlight exposure

Population groups

- Behaviour change
- Black and minority and ethnic groups
- Carers
- Children and young people
- Infants and neonates
- Older people
- People with a disability
- People with learning disabilities
- People with physical disabilities
- Socio-economic status
- Vulnerable groups

Service delivery, organisation and staffing

- Acute and critical care
- Adult social services
- Contraceptive services
- Emergency planning and resilience
- End of life care
- Maternity services
- Medicines management
- Multiple long-term conditions
- Oral and dental health
- Organ and tissue transplantation
- Patient and service user care
- Safeguarding
- Service transition
- Staffing
- Surgical care

Settings

- Accident and injury prevention
- Care homes
- Communities
- Community engagement
- Drug misuse
- Emergency planning and resilience
- Environment
- Home
- Hospitals
- Nursing homes
- Prisons and other secure settings
- Residential care homes

- Schools and other educational settings
- Transport
- Workplaces

Appendix D: Usage reporting required licence agreements

You will provide details of the usage of the information sorted by: anonymous unique end user, and by website, service or system, in a monthly report including the following:

- a. The number of unique users accessing the information and your services by system, channel and territory (for example, website, desktop application, mobile service etc.) per calendar month.
- b. Usage of the information: the number of times the information is **accessed** by end users (reporting monthly), where **accessed** means – the information is displayed to and/or transmitted to an end user.
- c. The information should be identified specifically at the level of access using the specific API access path where possible (for example, Home » Services » Guidance » Smokeless tobacco cessation: South Asian communities » 2 Public health need and practice).
- d. Information detailing the refreshing of cached information:
 - I. Immediately at the request of NICE
 - II. For page views by feed: no less than once every 24 (twenty-four) hours
- e. Monthly reports should be submitted to the inbox syndication@nice.org.uk in a format allowing data to be extracted and manipulated (for example, Excel or CSV) by the 10th working day of the month following the reporting period.

Appendix E: Attribution statements required under licence agreements

An NICE content published, distributed and transmitted by you must include a method to display an acknowledgement of the source by including the following:

© National Institute for Health and Care Excellence 2018

'This content is made available by NICE (National Institute for Health and Care Excellence) but distributed by a third-party distributor. NICE takes no responsibility for the format in which this content is delivered. The distributor is responsible for incorporating updates from NICE and cannot alter NICE content in any way. Any content delivered alongside content provided by NICE will not necessarily reflect the views of either NICE or those organisations commissioned to develop NICE guidance.'

Wherever possible, the NICE logo must also be displayed on every web page on your website, service or system that contains NICE content and must be placed above the fold and remain clearly visible in line with the associated information but subject always to there being no implication that either the third party service or its content is approved or verified by NICE.

A full resolution version of the NICE logo and the NICE brand guidelines are available on request.

Mobile applications

A 'Content provided by NICE' strap line available from NICE must be displayed at category or content page level and/or within the splash screen where any Information is predominant.

Contact NICE

For further advice and support, please email: syndication@NICE.org.uk