Resources last reviewed: 10 November 2023

## **CF genetic therapy and ATMP trials**

Cystic Fibrosis Trwat

Training and information resources for research and healthcare professionals

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Source	Title	Description	Access	Resource type
Cystic Fibrosis Foundation (CFF)	1 hour webinar, Genetic Therapies 101	Genetic therapies hold the potential to treat the underlying cause of the disease for everyone with cystic fibrosis, regardless of mutation. In this webinar an overview of RNA and gene therapy is given, starting from the basics.	https://www.youtube.co m/watch? v=C6PyZNpXAhQ&ab_ch annel=CysticFibrosisFou ndation	Video (1 hour)
FDA	Basic overview of gene therapy	FDA website that provides a basic overview of gene therapy. Includes a short video with a very basic overview of gene therapy .	https://www.fda.gov/con sumers/consumer- updates/what-gene- therapy-how-does-it- work	Article (10 minute read) with video (1.5 minutes)
Advanced Therapy Treatment Centres	Education and training resources	<ul> <li>This section includes a broad array of training resources that enable staff to learn more about ATMPs.</li> <li>Topics include: <ul> <li>Advance therapy education needs training package</li> <li>The UK training landscape in advanced therapies in the NHS</li> </ul> </li> <li>Introduction to advanced therapy medicinal products</li> <li>In vivo gene therapies</li> <li>The logistics of ATMPs in hospitals</li> <li>Patient and public perspectives on cell and gene therapies</li> <li>Gene therapy for respiratory diseases</li> <li>Governance &amp; operational considerations for delivering ATMPs in hospitals</li> </ul>	https://www.theattcnetw ork.co.uk/toolkit_section /education-and-training- resources	List of external links, PDF documents, webinars and eLearning modules

Health Education England - eLearning for Healthcare	Advanced Therapy Medicinal Products Programme	An eLearning programme developed by the Advanced Therapy Treatment Centre (ATTC) network, London Advanced Therapies, the Cell and Gene Therapy Catapult (CGTC) in partnership with Health Education England.  The sessions cover the following topics (feel free to mix and match depending on your individual learning needs):  Introduction to advanced therapy medicinal products  In vivo gene therapies  Immune effector cell therapy  Focus on CAR-T cell therapy  The logistics of ATMPs in hospitals  Safe use of low temperature transport vessels	https://www.e- lfh.org.uk/programmes/ad vanced-therapy- medicinal-products/	eLearning programme, each session lasts around 30 minutes
Health Education England	Introduction to Advanced Therapy Medicinal Products (ATMPs)	Three introductory videos on Advanced Therapy Medicinal Products which are recommended to be watched alongside completion of the ATMPs eLearning programme (above).  These videos may be especially useful for information from a pharmacy perspective and provide a basic overview of different types of cell and gene therapies which may be of interest to other healthcare professionals or those involved in operational delivery of ATMP treatments (e.g. clinical trials).	https://youtu.be/4f- yqtCfMH4  https://youtu.be/Sm27qpL qFfQ  https://youtu.be/RgvFvgC RhI0	Videos (5-10 minsutes each)
Advanced Therapy Treatment Centres	Advanced Therapy Education Series Webinar – gene editing	This webinar will present a basic introduction to gene editing and highlight the differences between gene editing and gene therapy. It will provide an overview of the current clinical landscape and examine some of the available safety data.	https://event.on24.com/w cc/r/2973921/86F25DDF8 CB6E7D6FB771208C089B 512	Webinar (39 minutes)
Advanced Therapy Treatment Centres	Advanced Therapy Education Series Webinar – gene therapy for respiratory diseases	The seminar summarises the progress of the UK Respiratory Gene Therapy Consortium's translational research programme primarily focused on developing clinically relevant gene therapy for cystic fibrosis and including development of novel non-viral and viral vectors.	https://event.on24.com/w cc/r/2973904/D5E203A48 AE3120A09637F9C70B27C 03	Webinar (46 minutes)

## **Information resources**



Source	Title	Description	Access	Resource type
Cystic Fibrosis Foundation (CFF)	Research into Genetic Therapies landing page	An online resource which provides information on the following areas:  • Gene Delivery for CF  • Gene Therapy for CF  • Gene Editing for CF  • Stem cells	https://www.cff.org/res earch-clinical- trials/research-genetic- therapies	Series of short articles (between 3 and 7 minutes read time each)
Cystic Fibrosis Foundation (CFF)	NACFC 2021   Plenary 2: Working Together to Pave the Path to a Cure	Recorded talk on the success of the CF Foundation's Path to a Cure initiative with emphasis placed on gene editing, gene therapy (replacement) and genetic therapy delivery.	https://www.youtube.c om/watch? v=nZi55Blysy0&list=PLh oQ6vyZhgqoCiN1AQFn Yi1KhpJcydljR&index=2	Video (1 hour)
Cystic Fibrosis Foundation (CFF)	NACFC 2022   Plenary 1: Hope for All: Addressing the Needs of Those With Untreated CF Mutations	Recorded talk giving an overview of some of the more rare CF mutations and the different approaches to develop treatments for people with those mutations. Includes a talk from 1:10:26 to 1:17:29 around how to explain CF genetics / genetic therapy treatments in ways that are accessible and easy to understand	https://www.youtube.c om/watch?v=k- H_hqkhu24	Video (1 hour 20 minutes)
Public Policy Projects	Advanced treatments –gene and cell therapy	A white paper which brings together representatives from across the cell and gene ecosystem with a focus on increasing awareness of cell and gene therapy in education and early careers. The report emphasizes the importance of cross sector collaboration in order to advance cell and gene therapies.	https://publicpolicyproj ects.com/wp- content/uploads/2023/ 09/Cell-Gene- Report.pdf	Report (28 pages; long read)

Source	Title	Description	Access	Resource type
Cystic Fibrosis Trust	Research in Focus report on genetic therapies	The report gives an overview of why we need genetic therapies for CF, how they may work and progress made so far	RES24C Research in focus_Gene editing_Dec 2020.pdf (cysticfibrosis.org.uk)	Report (20 minute read)
Association of the British Pharmaceutical Industry (ABPI)	ATMP Roadmap	The Roadmap Tool sets out the key steps and activities in the end-to-end pathway for Advanced Therapy Medicinal Products (ATMPs) in England from non-clinical research through to treatment provision and monitoring	https://www.abpi.org.uk/ media/o1npmwck/atmp- roadmap- tool_final_03122021- fullscreen.pdf	Roadmap (interactive tool)
Advanced Therapy Treatment Centres	National Cell & Gene Vision for the UK	This document has been developed to outline the recommended content that a national cell and gene therapy vision should incorporate to help ensure the UK remains a world leader in the provision of cell and gene therapies.	National Cell and Gene Therapy Vision for the UK	Report (36 pages; long read)
Advanced Therapy Treatment Centres	Advanced Therapies NHS Readiness Toolkit	Provides resources for healthcare organisations that are working towards the delivery of advanced therapies for patients	Advanced Therapies NHS Readiness Toolkit • ATTC Network - Advanced Therapy Treatment Centre (theattcnetwork.co.uk)	Interactive toolkit with resource links
Advanced Therapy Treatment Centres	Advanced therapy education webinar series	Link to the full page of all advanced therapy webinars (free to access) covering cell and gene therapy topics, from the basics about how they work to more operational aspects of delivering advanced therapies and clinical trials. The webinars are targeted at healthcare professionals, or anyone involved in cell and gene therapies.	https://www.theattcnetwo rk.co.uk/network/advance d-therapy-education- webinar-series	Webpage with a list of free webinars