

## Liverpool John Moores University

Title: Insulin secretion, initiation and titration  
Status: Definitive  
Code: **7004DBTADV** (118163)  
Version Start Date: 01-08-2021

Owning School/Faculty: Nursing and Allied Health  
Teaching School/Faculty: Nursing and Allied Health

Team	Leader
Sarah O'Brien	Y
Kevin Hardy	

**Academic Level:** FHEQ7      **Credit Value:** 20      **Total Delivered Hours:** 41  
**Total Learning Hours:** 200      **Private Study:** 159

### Delivery Options

Course typically offered: Summer

Component	Contact Hours
Lecture	10
Online	1
Practical	20
Tutorial	9

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	osce		60	1
Reflection	reflection		30	
Technology	discussion	Assessment of students contribution to interactive online activities throughout the duration of the module	10	

### Aims

*To equip the Advanced Practitioner with the knowledge, skills and competencies*

*necessary to initiate and titrate basic insulin regimens.*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 critically understand insulin secretion in the normal state and in type 1 and type 2 diabetes.
- 2 evaluate the best insulin regimen to suit the individual's lifestyle, commitment to self management and clinical needs
- 3 assess the factors related to effective patient self-management of insulin treatment
- 4 demonstrate basic skills and competencies to initiate and titrate insulin regimens

## **Learning Outcomes of Assessments**

The assessment item list is assessed via the learning outcomes listed:

osce	3	4
reflection on OSCE	3	4
contribution to discussion	1	2

## **Outline Syllabus**

*Insulin secretion in normal physiology and in type 1 and type 2 diabetes, pharmacology of insulin (short acting, rapid acting analogues, NPH, long acting analogues. Mixed preparations), competency frameworks for initiation and titration of insulin regimens, insulin delivery devices, local protocols, national guidance, injection technique, needle and device selection, blood glucose monitoring. Education requirements at initiation and ongoing, safety and risk management issues.*

## **Learning Activities**

Interactive key note lectures, case discussions, tutorial work, interactive self-directed learning through use of a 'blog' (discussion board). Students will be requested to complete the NHS Diabetes 'Safe Use of Insulin' online training programme.

## **Notes**

This module aims to equip the practitioner with the understanding required to gain skills and competencies in insulin initiation and titration, and to equip them with the basic skills and competencies to undertake insulin initiation. Ongoing regular practice and clinical supervision in the work place will be required to develop these basic skills and maintain professional competency.

The module is available as a CPD and is a core module on the Masters in Advanced

Health Care Practice (Diabetes).