

 safeMedicate

PROSPECTUS

2020

Be competent, be safe

*There is no room for error with drug calculations.
Develop and assess your skills with the world's
leading resource for healthcare students and
practitioners.*

Introduction

The only way
to do great work
is to love
what you do.

The safeMedicate® suite of medication dosage calculation problem-solving environments was launched in 2004 by UK based company Authentic World Ltd. Our mission is to improve patient safety by reducing medication error through high quality education and

innovative software solutions.

Our safeMedicate® product and services portfolio is founded upon a series of innovative educational software applications derived from 27 years of PhD and post-doctorate translational research. All products are web-based and capable of standalone use or of seamless integration with existing learning management systems.

PAGE OF CONTENTS

INTRODUCTION	2
DEVELOPING COMPETENCE THROUGH RESEARCH-BASED EVIDENCE	3
INTRODUCTION	4
OUR PRODUCTS	6
DEVELOPING COMPETENCE THROUGH RESEARCH-BASED EVIDENCE	8
TYPICAL STUDENT PATH THROUGH SAFEMEDICATE MODULES	10
TYPICAL REGISTERED PRACTITIONER PATH THROUGH SAFEMEDICATE MODULES	13
OUR TEAM	14
GLOBAL HIGHLIGHTS	16
MEETING THE FUTURE NURSE STANDARDS	18
OUR MODULES	20
HEALTHCARE NUMERACY ASSESSMENT	22
ESSENTIAL SKILLS	24
BODYWEIGHT & BODY SURFACE AREA	26
INJECTABLE MEDICINES THERAPY	28
PRESCRIBING CALCULATIONS	30
REVALIDATION	32
LICENCE COSTS & PURCHASE OPTIONS	34
ADMINISTRATOR PORTAL	36
FOCUSED ASSESSMENT BUILDER	38
TRAINING WORKSHOPS & WEBINARS	40
ACCESS AND SECURITY	42

OUR COMPANY

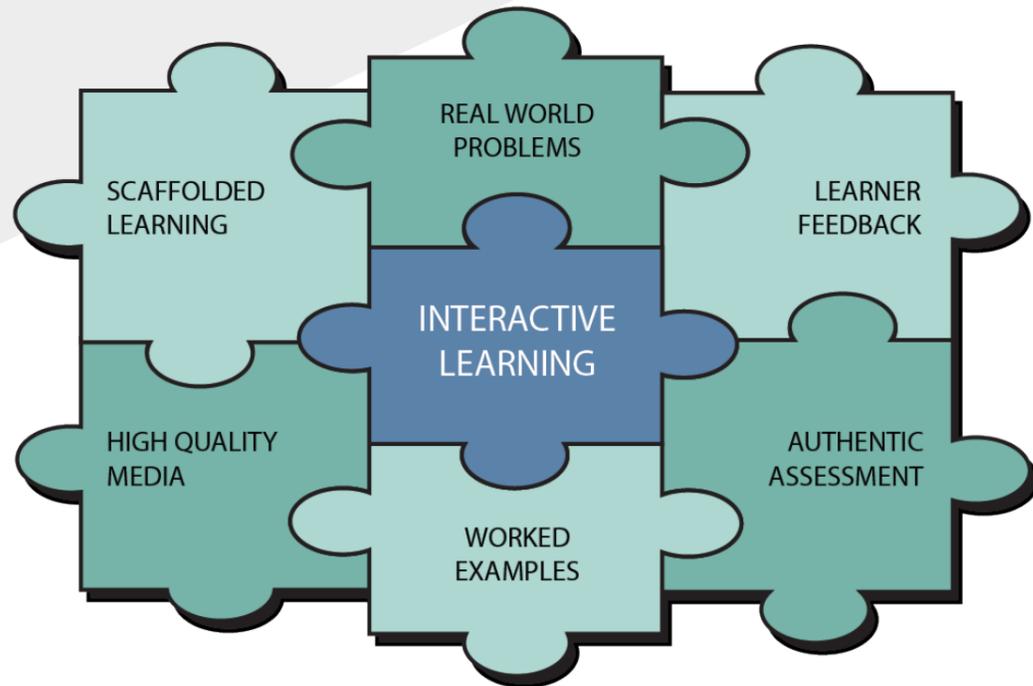
In 2020, safeMedicate® is used by higher education institutions and healthcare systems in 12 countries across five continents and is informing the competence development and assessment of over a quarter of million healthcare students and practitioners across the globe.



Our Products

safeMedicate® learning environments aim to guide users through an experiential learning process that effectively bridges the gap between theory and practice.

Based upon constructivist theories of learning, this unique approach provides a platform for learning that is proven to be highly effective in assisting the development of key problem solving skills.

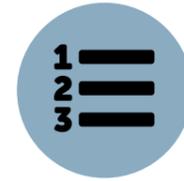


DISTINGUISHING FEATURES



EXPOSURE TO REAL WORLD PROBLEMS

Presentation of authentic dosage calculation problems as they exist in real world environments



UNIQUE COMPETENCE MODEL

A 3-phase model that sits at the heart of dosage calculation competence development and assessment



HIGH QUALITY MEDIA

Authentic visual representations of what learners will see and use in practice



SCAFFOLDED LEARNING

Use of innovative techniques that support the systematic construction of competence in dosage calculation



WORKED EXAMPLES

Step-by-step walk-throughs that illustrate expert dosage calculation problem solving techniques that support a range of learning styles



AUTHENTIC ASSESSMENT

Diagnostic assessment of learner dosage calculation competence in a 'real world' context



INTERACTIVE LEARNING

Use of immersive techniques that encourage active learner engagement with authentic features of clinical dosage calculation problems



LEARNER FEEDBACK

Evaluation of learner performance, measured against expert problem solving models that facilitates rapid diagnosis of competence and identification & correction of errors.

Developing Competence Through Research-Based Evidence

SAFETY IN NUMBERS



Clinical drug dosage calculation problems need to be learned and assessed under conditions where the mathematics in the real world is messy and complex, highly embedded and often hidden or invisible (Tout, 2014). safeMedicate virtual environments are designed to immerse the learner and practitioner at the interface of the authentic and complex world of drug dosage calculation problem-solving and the abstract world of healthcare mathematics. The safeMedicate authentic competence model and suite of programs, is underpinned by a 27-year programme of translational research, reported in 2013 by Elsevier in an eight-paper Safety in Numbers virtual special issue of Nurse Education in Practice. The series is available online [here](#). To date over 3,000,000 safeMedicate authentic assessments have been undertaken across the globe and are contributing to advancing patient safety via evidenced based education, error diagnosis and competence development.

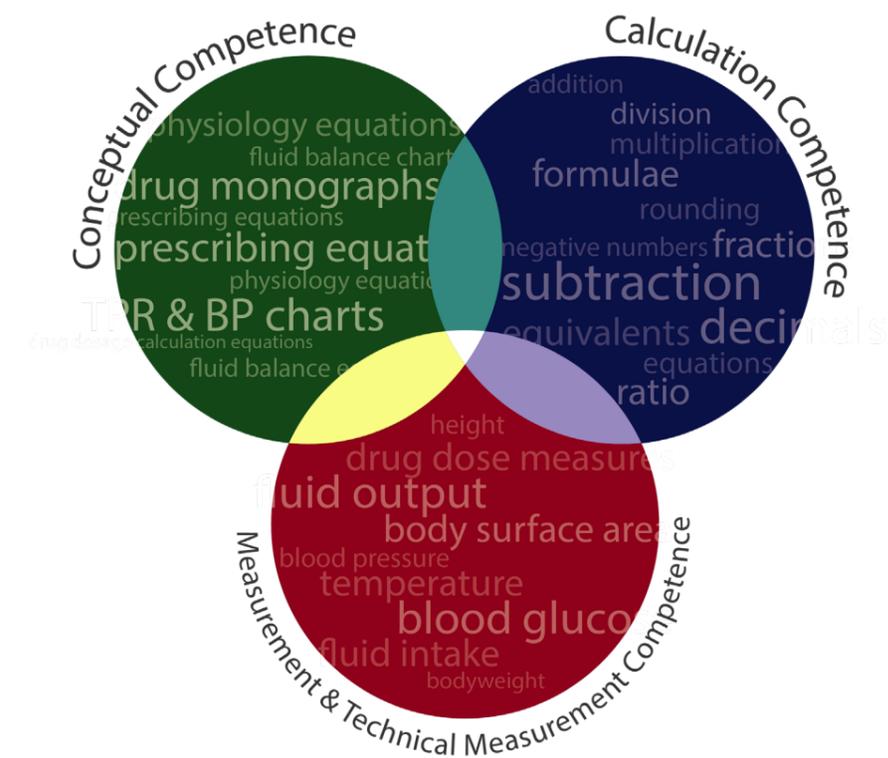
THE SAFEMEDICATE COMPETENCE MODEL

Every healthcare professional with responsibility for medication administration must develop, demonstrate and maintain competence within this domain of clinical practice.

Competence in medication dosage calculation problem solving is dependent upon three interrelated sub-elements:

1. Conceptual competence – understanding the problem in context.
2. Calculation competence – accurately calculating dosage and rate numerical values and measurement units.
3. Technical measurement competence – transferring the numerical values to a medication measurement vehicle e.g. syringe or IV pump.

Our software provides a unique and innovative environment for developing and assessing cognitive competence (knowledge) in an authentic virtual clinical context. It also sensitizes and prepares the user for the general principles underpinning the functional competence (know-how and skills) requirements of dosage calculation problem solving in clinical practice.



Our Team



UK TEAM



Norman Woolley
Founding Director, President of Business Management & CEO

Norman is a nursing and computing masters graduate. He has 40 years experience in the healthcare sector and 25 years software design and development experience in both academic and commercial environments.



Keith Weeks
Founding Director, President of Translational Research & CRDO

Keith is a Professor of Healthcare Numeracy and Education, who has circa 40 years of experience in the healthcare sector. His PhD in authentic virtual learning environment development underpins the design of the international safeMedicate suite of programs.



Alex Weeks
Associate Director | Mathematical Modelling & Translational Research

Alex is a mathematics graduate, majoring in Statistical Inference, Advanced Calculus and Cryptography. Following applying his mathematical skills in the construction industry, Alex joined Authentic World Ltd in 2012.



Matt Brown
Associate Director | Technical Systems Development

Matt is a Graphic Design graduate who joined Authentic World Ltd in 2004. He works closely with the UK and US teams to develop new, innovative solutions to enhance the scope and effectiveness of safeMedicate.



Andrew Smith
Developer & Special Projects Manager

Andrew is a computing graduate who holds a BSc (Hons) in Computer Science from the University of South Wales. He joined Authentic World Ltd in 2012 as a member of the software development team.



Kirsty Weeks
Associate Director | Marketing

Kirsty is a marketing graduate who holds a BA (Hons) in Promotion and Marketing. Her passion for promotion and marketing covers all aspects such as photography, styling, film, creative direction, magazine design, and social media. Kirsty joined Authentic World Ltd in 2017 as a member of the marketing team.



Samantha Woolley
Customer Success Manager

Sam is a science graduate who holds a BSc (Hons) in Forensic Biology from the University of South Wales. With six years experience in customer service and two years working in a toxicology laboratory, Sam joined Authentic World Ltd in 2020 as a member of the Customer Success team.

Global Highlights

safeMedicate is the market leading resource for healthcare students and practitioners worldwide.



ASSESSMENTS TAKEN

+4.7 MIL

Over 4.7 million assessments have been taken.



USERS

+330,000

Over 330,000 users worldwide are using the safeMedicate suite of programs.



COUNTRIES

safeMedicate is being used across the globe in 12 countries.



CONTINENTS

safeMedicate is being used across 5 continents.



Our Modules

safeMedicate® learning and assessment environments aim to guide users through an experiential learning process that effectively bridges the gap between theory and practice.



HEALTHCARE NUMERACY ASSESSMENT

Our Healthcare Numeracy Assessment is designed to develop and assess the 20 core areas of health numeracy that underpin and inform the safe practice of the Future Nurse proficiencies.



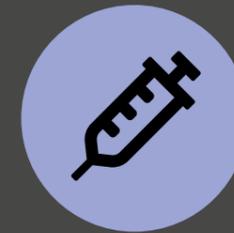
FNS ESSENTIAL SKILLS MODULE

This module requires demonstration of conceptual, calculation and technical measurement competence in tablet/capsule, oral liquid medicine, injection and IV infusion of crystalloid/colloid/blood product preparations and modes of administration.



FNS BODYWEIGHT & BODY SURFACE AREA MODULE

Designed to develop and assess the competencies required for safe medication practice on both adult and child patient populations and will require the student to factor either bodyweight or body surface area (BSA) into the problem-solving process.



FNS INJECTABLE MEDICINES MODULE

Designed to develop and assess the competencies required for safe medication practice with the more complex problem solving and calculations associated with injectable medicine therapies involving IV bolus dose and intermittent and continuous infusion modes of administration.



PRESCRIBING CALCULATIONS MODULE

The prescribing calculations module is designed to assist and assess learners on the core calculations required to generate an accurate prescription.

Healthcare Numeracy Assessment



The Healthcare Numeracy Assessment (HNA) module extends the scope of our widely used Foundation Numeracy Assessment (FNA) module to incorporate 20 core areas of healthcare numeracy that underpin and inform the safe practice of a wide range of nursing proficiencies and clinical procedures.

HNA makes it easy to assess your learners' capability to develop the numeracy skills required to meet programme outcomes and provides a platform to support them in continuously developing their abilities in numeracy throughout their studies.

SAFEMEDICATE FRAMEWORK

Our analysis of the NMC standards has identified 20 core areas of health numeracy that underpin and inform the safe practice of the Future Nurse proficiencies.

20 CORE AREAS

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Negative Numbers
6. Fractions
7. Decimals
8. Percentage
9. Ratio
10. Equivalences between fractions, decimals, percentages
11. Conversion between SI and other measurement units
12. Conceptual problem solving
13. Formula & Equations
14. Rounding of Numbers
15. Estimation
16. Indices & Logarithms
17. Calculator Use
18. Measurement
19. Interpretation of tables, charts and graphs
20. Statistics

HEALTHCARE NUMERACY ASSESSMENT FORMATS

- HNA features a POINT OF ENTRY assessment format that's designed to provide an accurate and thorough baseline assessment of the 20 essential mathematical skills domains.
- Identify your learners' strengths and weaknesses in mathematics right from the outset and better plan their support and development needs to help them progress successfully through the programme.
- HNA features a POINT OF REGISTRATION assessment format that's designed for formative and summative diagnostic assessment of nursing numeracy competence in authentic nursing practice contexts.
- Assess your learners' competence development at key progression points throughout the curriculum and at the point of registration.

POINT OF ENTRY

Fractions
Carefully read the question below.

Solve the fraction problem. Type your answer in the box below.

$\frac{2}{3}$ of 24 =

My answer is

When you are ready to proceed to the next question, click **CONTINUE**.

DON'T KNOW **CONTINUE**

POINT OF REGISTRATION

Fractions
Carefully read the question below.

The patient below has renal impairment. The prescriber is required to use **one-half (1/2) of the normal drug dose**. Solve the prescribing problem and **calculate the correct renal impairment adjusted dose**. Type your answer in the box below.

Estimated Glomerular Filtration Rate (eGFR)
8 mL/minute/1.73 m²

DRUG MONOGRAPH
Aztreonam

Normal Drug Dose
Aztreonam
1 gram
Twice a day

Renal Impairment Dose Adjustment
Use quarter normal dose if eGFR less than 10 mL/minute/1.73 m²

MEDICINE APPROVED NAME
Aztreonam

DOSE
? mg

FREQUENCY
Twice a day

My answer is mg, twice a day

When you are ready to proceed to the next question, click **CONTINUE**.

DON'T KNOW **CONTINUE**

FNS Essential Skills

YOUR FIRST STEPS TO DOSAGE CALCULATION COMPETENCE



Essential Skills is a highly interactive, visual and self-paced learning and assessment environment designed by experienced nurse educators and clinical pharmacists.

It is designed to develop and assess the competencies required for building a solid foundation for safe medication dosage calculations.



423

Unique Medications



44,000

Authentic Dosage Problems



12

Clinical Systems



379

Clinical Indications



Essential Skills can be used to replace traditional methods of teaching and assessing drug calculation skills and locates seamlessly within a typical pre-registration curriculum.

The integrated assessment features provide a platform for formative or summative assessments with automated and detailed diagnostic feedback on performance for the individual user and institution.

Essential Skills is designed to assist learners to:

- Conceptually understand drug dosage calculation problem-solving for doses prescribed in the form of tablets and capsules, oral liquid medicines, injections and IV infusions.
- Interpret medication orders, medication product labels, prepared intravenous infusion labels, monographs and other important information, and accurately calculate prescribed drug dosages and rates of administration.
- Demonstrate medication measurement skill by selecting an appropriate medication delivery vehicle and measurement of the correct dose volume or rate of administration of prescribed medications.

Complexity Level: Multiple Unit Dose fns essential skills es

Patient's Name
Mollie Lewis

Sex: Female Age: 21 years
Height: 160 cm Bodyweight: 57.6 kg
Body Surface Area: 1.6m²
Diagnosis: epilepsy during pregnancy
Allergies: Nil Known

ROUTINELY SCHEDULED MEDICINES			Date
Date	Medicine (print generic name)		1/7/2020
1/7/2020	Carbamazepine Oral Suspension		
Dose	400 mg	Route	ORAL
		Administration Times	10:00
Dose Calculation		Max Dose	2 g per day
Indication	Epilepsy	Prescriber's Signature	Dr Jones
		Pharm	
			22:00

Carbamazepine Oral Suspension
100mg per 5mL

Drug Monograph
For Use in safeMedicate Only

Medication Name
Carbamazepine Oral Suspension

Indication
Epilepsy

Administration Route
ORAL

Dose
400 mg Twice a day, every 12 hours

Maximum Dose
2 g per day

Dispensed Dose
100mg per 5mL

CORRECT ANSWER

DOSE / VOLUME CALCULATION

mg ÷ mg × mL = mL

ADMINISTER THE CORRECT DOSE/VOLUME OF LIQUID MEDICINE

YOUR ANSWER

ROUNDING
For volumes greater than 1mL, round to tenths. For volumes less than 1mL, round to hundredths.

DOSE / VOLUME CALCULATION CONCEPTUAL CALCULATION

mg ÷ mg × mL = mL

ADMINISTER THE CORRECT DOSE/VOLUME OF LIQUID MEDICINE TECHNICAL MEASUREMENT

YOUR CALCULATOR USAGE
400 ÷ 100 × 5 = 20

Bodyweight & Body Surface Area

BUILDING UPON THE BASICS



This Advanced Skills module builds upon the dosage calculation competence developed within the Essential Skills module.

It is designed to develop and assess the competencies required for safe medication practice with the more complex problem solving and calculations associated with bodyweight and body surface area dosage problems.



Bodyweight & Body Surface Module is designed to assist learners to:

- Conceptually understand drug dosage and 24-hour maintenance fluid calculation problem-solving for doses standardised by bodyweight and body surface area (BSA).
- Interpret medication orders, medication product labels, monographs and other important information, and accurately calculate prescribed drug dosages and total and divided 24-hour maintenance fluid requirements, based on the patient's kilogram bodyweight and body surface area (BSA).
- Demonstrate medication measurement skill by selecting a correct syringe and measurement of the correct volume of prescribed medication; and for children and neonates, appropriate measurement of total and divided 24-hour maintenance fluid volumes and setting of millilitre per hour intravenous infusion pump rates.



423

Unique Medications



44,000

Authentic Dosage Problems



12

Clinical Systems



379

Clinical Indications

Complexity Level: Daily Divided Dose fns bodyweight based calculations as

Patient's Name
Rosie Saunders

Sex: Female Age: 52 years
Height: 152 cm Bodyweight: 60 kg
Body Surface Area: 1.6m²
Presenting Complaint: Epilepsy
Allergies: Nil Known

ROUTINELY SCHEDULED MEDICINES				Date	23/1/2020
Date	23/1/2020	Medicine (incl generic name)	Phenytoin Oral Suspension	Administration Times	08:00
Dose	120 mg	Route	Oral		
Dose Calculation	4 mg/kg/day in 2 divided doses every 12 hours	Max Dose	4 mg/kg/day in 2 divided doses, every 12 hours (300mg per day)		
Indication	Epilepsy	Prescriber's Signature	Dr Jones	Pharm	20:00

Phenytoin Oral Suspension
30 mg per 5 mL

Drug Monograph
For Use in safeMedicate Only

Medication Name
Phenytoin Oral Suspension

Indication
Epilepsy

Administration Route
Oral

Dose Calculation
4 mg/kg/day in 2 divided doses every 12 hours

Maximum Dose
4 mg/kg/day in 2 divided doses, every 12 hours (300mg per day)

Dispensed Dose
30 mg per 5 mL

CORRECT ANSWER

ORDERED DOSE CHECK

60 kg x 4 mg/kg/day = 240 mg/day

ORDERED DOSE CHECK

240 mg/day ÷ 2 doses/day = 120 mg/dose

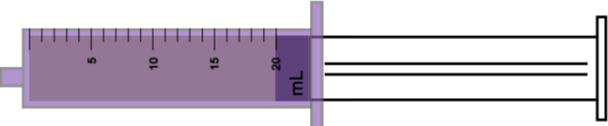
SAFETY CHECK

Has the prescriber calculated the ordered dose correctly?

DOSE / VOLUME CALCULATION

120 mg ÷ 30 mg = 4 x 5 mL = 20 mL

ADMINISTER THE CORRECT DOSE/VOLUME OF LIQUID MEDICINE



YOUR ANSWER

ORDERED DOSE CHECK CONCEPTUAL CALCULATION

60 kg x 4 mg/kg/day = 240 mg/day

ORDERED DOSE CHECK CONCEPTUAL CALCULATION

240 mg/day ÷ 2 doses/day = 120 mg/dose

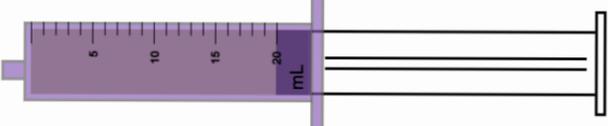
SAFETY CHECK SAFETY CHECK

Has the prescriber calculated the ordered dose correctly?

DOSE / VOLUME CALCULATION CONCEPTUAL CALCULATION

120 mg ÷ 30 mg = 4 x 5 mL = 20 mL

ADMINISTER THE CORRECT DOSE/VOLUME OF LIQUID MEDICINE TECHNICAL MEASUREMENT



YOUR CALCULATOR USAGE
C C 120 ÷ 30 = 4

Injectable Medicines Therapy

ADVANCING YOUR PRACTICE



This Advanced Skills module builds upon the dosage calculation competence developed within the Essential Skills and Bodyweight and BSA modules.

It is designed to develop and assess the competencies required for safe medication practice with the more complex problem solving and calculations associated with injectable medicines therapy such as slow IV injections, intermittent and continuous infusions.



423

Unique Medications



44,000

Authentic Dosage Problems



12

Clinical Systems



379

Clinical Indications



The Injectable Medicine Therapies Module is designed to assist learners to:

- Conceptually understand drug dosage calculation problem-solving for doses prescribed via slow IV injection, intermittent infusion or continuous infusion.
- Interpret medication orders, medication product labels, prepared medication infusion labels, monographs and other important information, and accurately calculate prescribed drug dosages and rates of administration.
- Demonstrate medication measurement skill by:
 - Selecting an appropriate syringe, measuring the correct volume of prescribed medication and administering a slow IV injection at the prescribed duration.
 - Setting the correct volume to be infused and prescribed rate of administration, for an intermittent or continuous infusion, administered via a prescribed volumetric or syringe pump.

Complexity Level: mcg/kg/hr fns/injectable medicines therapy as

CONTINUOUS INFUSIONS					
Date	Infusion Fluid Type / Strength	Volume	Route	Medicine Added Approved Name	Dose
23/1/2020	Sodium Chloride 0.9%	500 mL	I.V.	Aminophylline	500 mg
Indication	Severe acute asthma		Infusion Duration or Rate	700 microgram/kg/hour	
Max Dose / 24hrs	700 microgram/kg/hour		Prescriber's Signature	Given By	
Instructions	Adjust rate according to plasma theophylline concentration		Dr Jones		

Patient's Name
Austin England

Sex
Male

Age
65 years

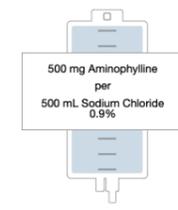
Height
152 cm

Bodyweight
80 kg

Body Surface Area
1.8m²

Presenting Complaint
Severe Acute Asthma

Allergies
Nil Known



Drug Monograph
For Use in safeMedicate Only

Medication Name
Aminophylline

Indication
Severe acute asthma

Mode of Administration
Continuous infusion

Dose Calculation
700 microgram/kg/hour

Maximum Dose
700 microgram/kg/hour

Prepared Medication
500 mg per 500 mL Sodium Chloride 0.9%

Administration Route
I.V.

Administration Method
Volumetric Pump

Instructions
Adjust rate according to plasma theophylline concentration

CORRECT ANSWER

BODYWEIGHT BASED DOSE CALCULATION

$$700 \text{ mcg/kg/hr} \times 80 \text{ kg} = 56000 \text{ mcg/hr}$$

S.I. UNIT CONVERSION

$$56000 \text{ mcg/hr} \div 1000 \text{ mcg/mg} = 56 \text{ mg/hr}$$

RATE CALCULATION

$$\frac{500 \text{ mL}}{500 \text{ mg}} \times 56 \text{ mg/hr} = 56 \text{ mL/hr}$$



YOUR ANSWER

BODYWEIGHT BASED DOSE CALCULATION CONCEPTUAL CALCULATION

$$700 \text{ mcg/kg/hr} \times 80 \text{ kg} = 56000 \text{ mcg/hr}$$

S.I. UNIT CONVERSION CONCEPTUAL CALCULATION

$$56000 \text{ mcg/hr} \div 1000 \text{ mcg/mg} = 56 \text{ mg/hr}$$

RATE CALCULATION CONCEPTUAL CALCULATION

$$\frac{500 \text{ mL}}{500 \text{ mg}} \times 56 \text{ mg/hr} = 56 \text{ mL/hr}$$



YOUR CALCULATOR USAGE
C C 7 0 0 * 8 0 = 56000

Prescribing Calculations

AVAILABLE SEPTEMBER 2020 | BECOMING PRESCRIBER READY



The prescribing calculations module is designed to assist and assess learners on the core calculations required to generate an accurate prescription.

In combination with our Essential and Advanced Skills modules it is designed to prepare learners to be 'prescriber ready' and capable of undertaking further studies to become an independent prescriber.

PRESCRIBING CALCULATIONS

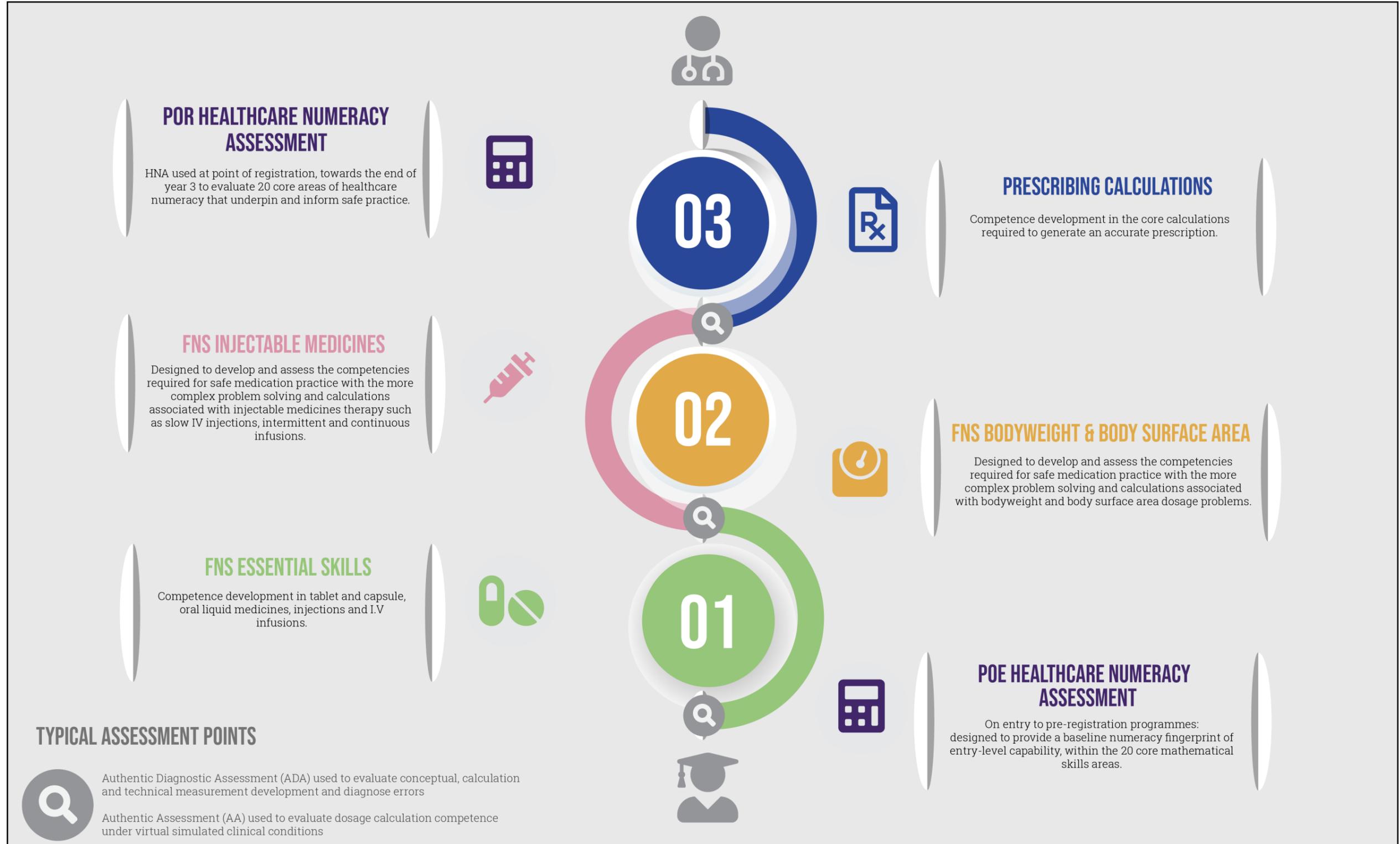
The Prescribing Calculations module builds upon the prescription error-checking components of the problem-solving process that are introduced in our Advanced Skills modules. It provides a comprehensive overview of the prescribing process with a primary focus on the core calculations required to generate an accurate prescription.

Prescribing Calculations is designed to assist learners to:

- Identify the key stages of the prescribing process and show how these are aligned with the Royal Pharmaceutical Society Competency Framework for all Prescribers.
- Generate an unambiguous and complete prescription which meets legal requirements.
- Accurately complete and routinely check calculations relevant to prescribing in both hospital and community settings.



Typical Student Path Through safeMedicate Modules



Typical Registered Practitioner Path Through safeMedicate Modules

For the registered practitioner, engagement with safeMedicate modules will typically be aligned with the needs of the clinical practice setting or with continuing education needs of the individual. For practitioners already working within a particular practice setting, engagement would begin with an Authentic Assessment of competence. For practitioners who are new to a practice setting, engagement would begin with the learning zone component of the most appropriate module.

The pathway illustrated below demonstrates how a practitioner already working in a practice setting where typical dosing regimes include bodyweight and body surface area calculations would engage with safeMedicate. The emphasis is on demonstration of competence within that domain of practice and, where necessary, diagnostic assessment and subsequent remediation within the associated learning zone should skill deficits be identified.

Similar entry points and pathways exist for our Injectable Medicines Therapy module.

TYPICAL ASSESSMENT POINTS



Authentic Diagnostic Assessment (ADA) used to evaluate conceptual, calculation and technical measurement development and diagnose errors

Authentic Assessment (AA) used to evaluate dosage calculation competence under virtual simulated clinical conditions

FNS BODYWEIGHT & BSA AUTHENTIC ASSESSMENT

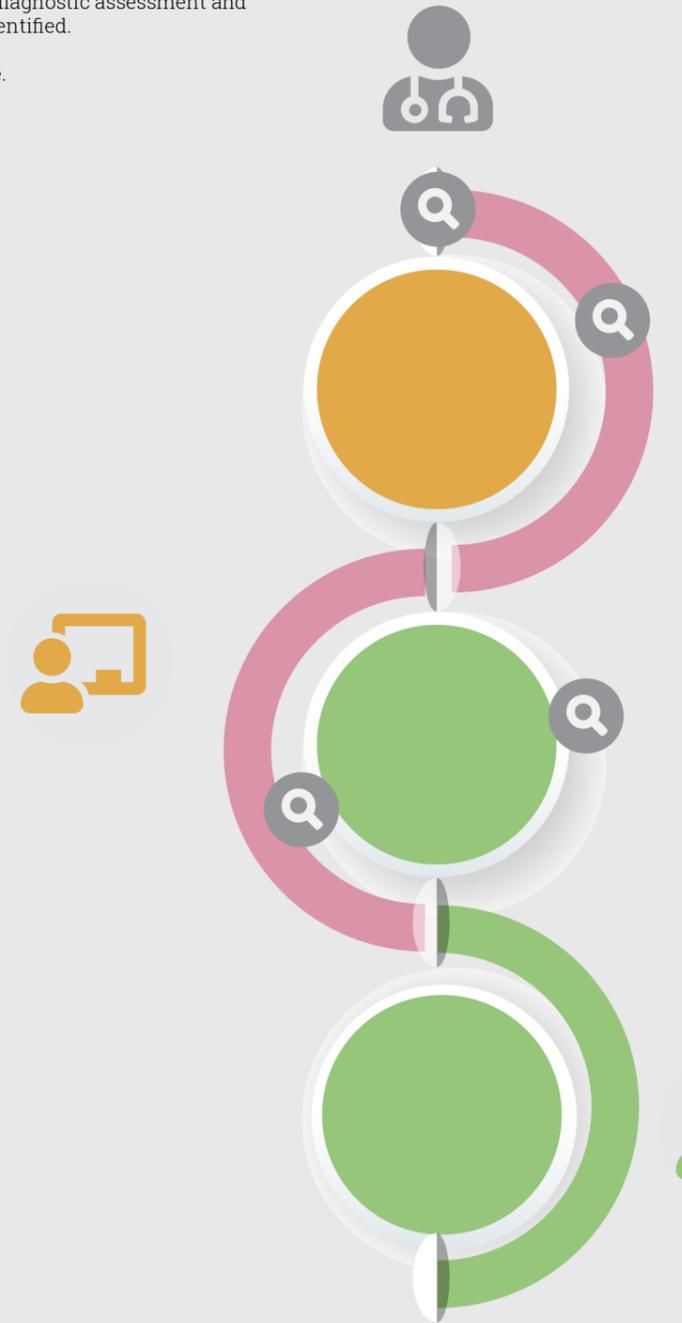
AA used to evaluate 100% competence in Bodyweight & Body Surface Area based calculations under virtual simulated clinical conditions

FNS BODYWEIGHT & BSA LEARNING ZONE

Learning zone used to support development of bodyweight & body surface area based calculation problem solving skills.

FNS ESSENTIAL SKILLS ADA

Used when errors are committed in Authentic Assessment to diagnose the root cause of the error: conceptual, calculation or technical measurement



FNS BODYWEIGHT & BSA AUTHENTIC DIAGNOSTIC ASSESSMENT

Used when errors are committed in Authentic Assessment to diagnose the root cause of the error: conceptual, calculation or technical measurement

FNS ESSENTIAL SKILLS AA

Used as the minimum benchmark of competence in Essential Medication Dosage Calculation Skills prior to study of Advanced Skills (Bodyweight & BSA or Injectable Medicines Therapy)

FNS ESSENTIAL SKILLS LEARNING ZONE

Used when learning support is required to develop competence in Essential Medication Dosage Calculation Skills

REVALIDATION

ACCREDITED LEARNING TO SUPPORT YOUR CPD



We can support your Revalidation:

Did you know, that safeMedicate is the market leading resource for supporting the development and assessment of competence in drug dosage calculations?

With up to 40% of nurses' time spent on drug administration, it is essential that nurses remain competent in this patient safety critical skill. safeMedicate is an accredited program that can support your revalidation journey within this domain of professional practice. On successful completion of one of our modules, you will receive a certificate of completion to support your revalidation portfolio of evidence.

safeMedicate can support the following two elements of your Revalidation:

35 HOURS OF CPD



You must have undertaken 35 hours of continuing professional development (CPD) relevant to your scope of practice as a nurse or midwife in the three year period since your registration was last renewed, or when you joined the register.

5 REFLECTIVE ACCOUNTS



You must have prepared five written reflective accounts in the three year period since your registration was last renewed or you joined the register.

CERTIFICATE OF COMPLETION & REFLECTIVE ACCOUNT

Our learning modules have been accredited by the CPD Standards Office and each module equates to a set number of CPD hours.

On successful completion, we will award you with a certificate of completion which you can keep within your CPD Portfolio and use as evidence towards your Revalidation. We'll also give you the opportunity to consider and document aspects of your learning which can then be used as a basis for one of the five reflective accounts you will also need to submit as evidence as part of the revalidation process.



The CPD Standards Office
CPD PROVIDER: 50085
 2020 - 2022
www.cpdstandards.com



ACCREDITED CPD

- CPD points ✓
- Certificate of Completion ✓
- Reflective account ✓

Licence Costs & Purchase Options

HIGHER EDUCATION PRICING

Duration / Module	Essential Skills	Bodyweight & Body Surface Area	Injectable Medicine Therapies	Prescribing Calculations	Essential Skills + 1 Module	Essential Skills + 2 Modules	Future Nurse Curriculum
6 Months	£6.00	£4.00	£4.00	£4.00	£7.00	£8.00	£10.00
1 Year	£10.00	£8.00	£8.00	£8.00	£12.00	£13.00	£15.00
2 Years	£15.00	£12.00	£12.00	£12.00	£18.00	£21.00	£25.00
3 Years	£20.00	£15.00	£15.00	£15.00	£25.00	£28.00	£30.00
4 Years	£25.00	£20.00	£20.00	£20.00	£30.00	£33.00	£35.00

HEALTHCARE SYSTEM PRICING

Duration / Module	Essential Skills	Bodyweight & Body Surface Area	Injectable Medicine Therapies	Prescribing Calculations	Essential Skills + 1 Module	Essential Skills + 2 Modules	Future Nurse Curriculum
6 Months	£6.00	£4.00	£4.00	£4.00	£7.00	£8.00	£10.00
1 Year	£10.00	£8.00	£8.00	£8.00	£12.00	£13.00	£15.00



PRICING STRUCTURE

All prices are exclusive of VAT and came into effect 1st September 2019.

For higher education institutions, we provide access to a range of module combinations across the suite of safeMedicate Essential Skills and Advanced Skills modules as 6-month, 1-year, 2-year, 3-year or 4-year options.

Licences are typically purchased in bulk by the institution according to total student numbers on the course. Licences are issued on receipt of an official purchase order from the institution. All licences will be associated with the purchasing institution for student administration purposes.

On first implementation of safeMedicate at a particular higher education institution, if purchasing 3 year licences in bulk for 1st year students beginning their undergraduate studies, we are pleased to offer discounted prices for existing 2nd year and 3rd year students. Further details can be provided at time of purchase.

SAFEMEDICATE ADMINISTRATOR

LICENCE COSTS

There is no cost associated with administrator licences for faculty or healthcare system managers, or for access to our Administrative Portal (see below) when the institution purchases student or practitioner licences in bulk.

safeMedicate Customer Support is also provided to the institution at no additional cost.

ADMINISTRATOR PORTAL

TOOLS AND FEATURES TO SUPPORT THE LOCAL MANAGEMENT OF SAFEMEDICATE

We've made it simple to implement and manage safeMedicate within your organisation. Whether you're a healthcare educator or manager, our Administration Portal provides a single point of access to a range of powerful time-saving tools and features.

ASSESSMENT MANAGER

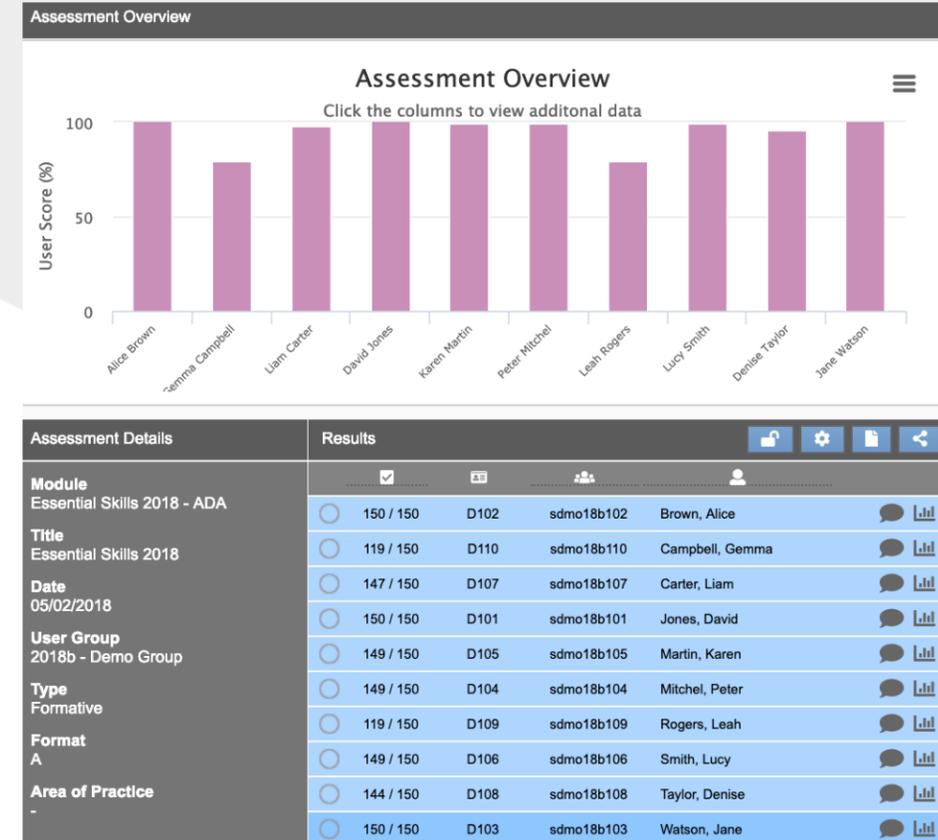
Scheduling assessments for your learners using our Assessment Manager is a simple process that unfolds on the screen as you progress through making your choices and setting various options. For our Essential and Advanced Skills modules you can choose:

- Diagnostic or authentic assessment modes
- Assessment date and start time
- Assessment duration and availability
- Single or repeated events over set periods of days or weeks
- Specific cohorts or groups within cohorts
- Pre-defined assessment formats
- Administrator defined focused assessment formats
- Formative or summative options
- Once only or repeat attempts
- Availability of on-screen calculator
- Feedback availability

FEEDBACK CENTRE

On completion of safeMedicate scheduled assessments, all results are immediately available for you to review via the Feedback Centre.

- Review cohort/group performance as bar charts and lists of individual users
- Interactive charts that allow you to drill down to results for individual users
- Print charts in various image formats or as PDF documents
- Show results as total scores or as percentages
- Identify any learners who did not take the assessment
- Choose when to release results to learners (summative assessments)
- External Examiner Share Feature
- Export results as an Excel spreadsheet for further analysis or for import into your VLE



FEEDBACK CENTRE

On completion of safeMedicate scheduled assessments, all results are immediately available for you to review via the Feedback Centre.

- Drill down to view detailed question-level results and feedback for individual users
- Rich visual feedback displays the problem elements (medication order and medication container label), the correct answer and the learner's answer
- Immediately identify which elements of the answer are correct or incorrect aided by direct comparison with the expert solution
- If a calculator has been used, see the recorded keystrokes
- When results are released, the same level of detailed feedback is available to the learner

ENGAGEMENT MONITORING

safeMedicate makes it easy for you to monitor the degree to which learner's are engaging with the program and the progress they are making.

- Institution-wide Usage Statistics widget that provides a snapshot of system activity and engagement for 6 metrics over a range of pre-set time periods (e.g. usage within last 3 months)
- Search for and identify users who have not registered their accounts
- Search for and list users who have not engaged within pre-defined time periods (e.g. no engagement in last month)
- Export lists of non-engaging users as an Excel spreadsheet

FOCUSED ASSESSMENT BUILDER

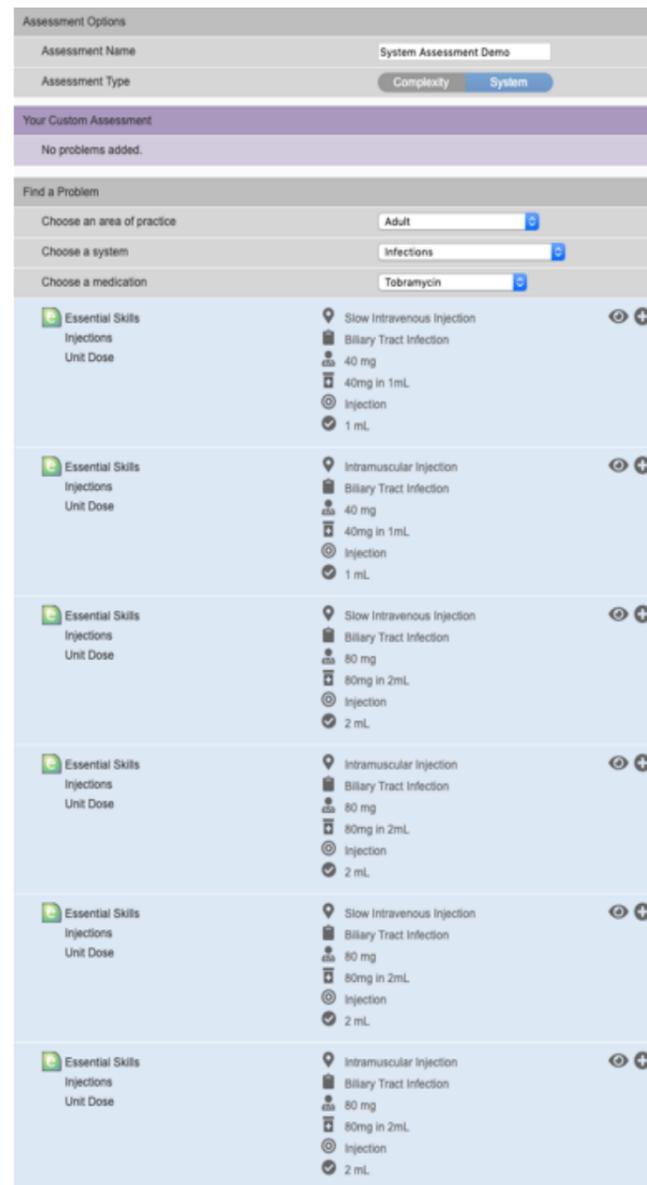
ASSESSMENT SCHEDULING JUST GOT EASIER

NEW FOR 2020

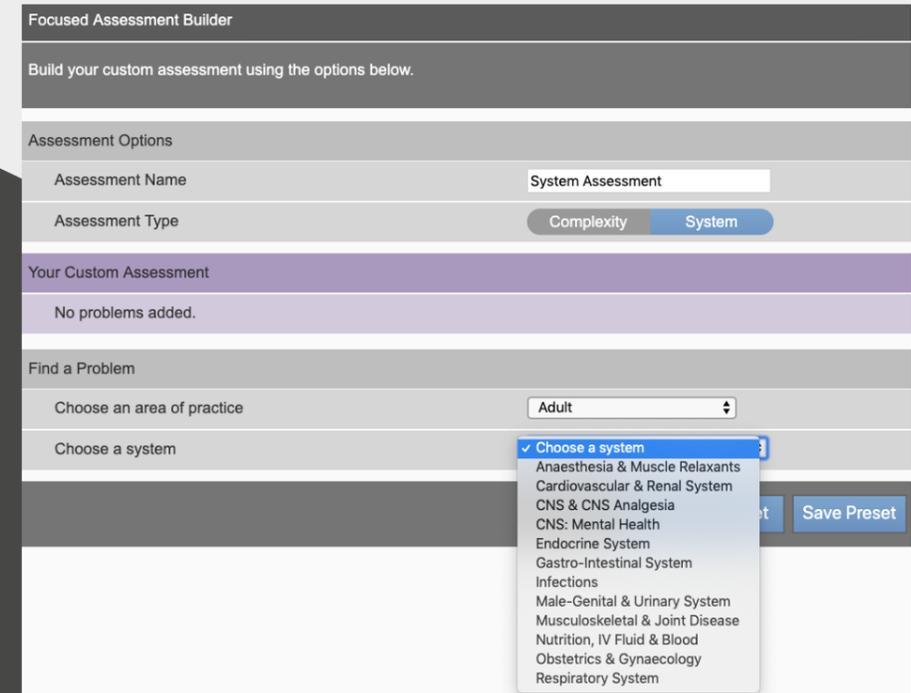
Following the success of our current Flexible Assessment framework, we have developed a Focused Assessment Builder (FAB) that launched in September 2019. This provides the administrator to set a wide range of assessments by complexity level (e.g. specific levels within Essential Skills, Bodyweight/BSA & Injectable Medicines modules), or system-based (e.g., cardiovascular, nervous, endocrine system).

As an administrator you will have the ability to:

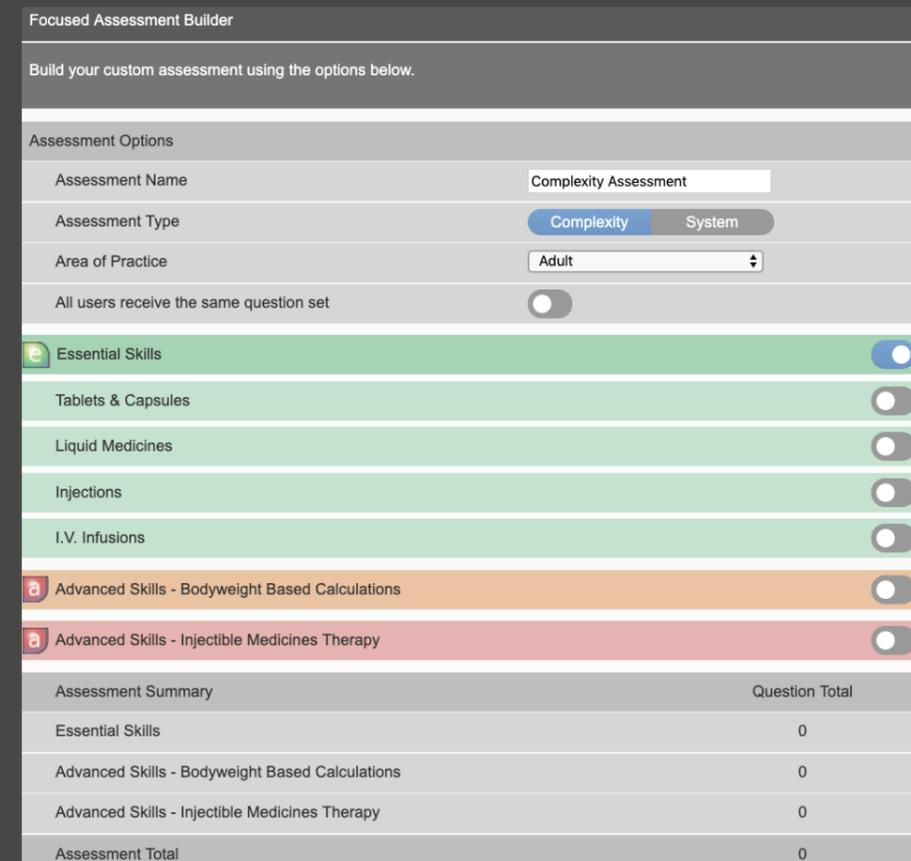
- Align safeMedicate assessments with individual modules of the adult, child, mental health., etc. curriculum.
- Create focused assessments centered on specific drugs in preparation for simulated or practice-based clinical experiences.
- Save any assessment as a preset or template for repeated use.



SYSTEM BASED



COMPLEXITY



Training Workshops & Webinars

EXPERT TUITION TO SUPPORT A SUCCESSFUL LOCAL IMPLEMENTATION



Designed specifically to help you get the most out of the software and to support its successful implementation within your organization.

Our workshops and webinars are for staff that will take responsibility for its local administration, supporting learners and monitoring their engagement and performance.

WORKSHOP FORMATS

ON-SITE TRAINING

Workshops are delivered using a blend of seminar type presentation, discussion and hands-on computer training. Our professional trainers will come to your organization to deliver the workshop which typically lasts a full day.

ONLINE TRAINING

Alternatively, our workshop can be delivered online as a short series of webinars by our professional e-learning specialists. Webinars comprise a blend of slide presentation, discussion and live product demonstration and each in the series will last approximately 1 - 1.5 hours. All webinars provide opportunity for wider discussion of topics presented.

TYPICAL WORKSHOP SCHEDULE

- Underpinning pedagogy and research evidence base
- Competence in medication dosage calculation
- Overview of the safeMedicate software suite
- Content and scope
- Key features and functionality of learning modules
- Key features and functionality of assessment modules
- Interpretation and optimization of learner performance
- Administrative tools
- Curriculum integration (higher education users)
- Strategies for successful organization-wide implementation
- Workshop/webinar evaluation



SAFEMEDICATE WEBINARS

Our webinars are for staff who will take responsibility for local administration and supporting learners.

Check out our list of webinars below and click the link [here](#) to register. We're sure you'll find something that will suit your needs!

- Introducing safeMedicate
- FNS Essential Skills
- FNS Bodyweight Based and Body Surface Area
- FNS Injectable Medicines Therapy
- safeMedicate Future Nurse Curriculum
- Healthcare Numeracy Assessment
- Exploring the Focused Assessment Builder (FAB)
- Exploring Advanced Organisers

Access and Security

FOR ALL OF YOUR SECURITY NEEDS

Authentic World offers higher education institutions and healthcare providers with the definitive online solution for developing, assessing and maintaining the essential and advanced skills that underpin competence within the domain of safe medication dosage calculation.

All of our products are web-based and our website is available 24 hours a day and 365 days a year from anywhere in the world providing you have access to the internet via a network or reliable broadband connection. All that is required to run our software is an up-to-date web browser such as Google Chrome, Microsoft Internet Explorer or Mozilla Firefox. Our user guides are also online in PDF format and require the Adobe Reader software to view them. Adobe Reader is a free download.

Access to all our software is via our secure website portal providing encryption of the highest standard thereby offering the utmost level of security possible. This means you can rest assured that communications between your browser and our site are private and secure.

Please visit our website at www.safemedicate.com for more information.

You'll find everything you need to know about our company, the features of our safeMedicate software and our [safeMedicate Interactive Demo \(SID\)](#), that allows you to engage with and undertake example diagnostic assessments from our entire suite of safeMedicate environments.



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