

Introduction to STP (Clinical Science) Clinical Pharmaceutical Sciences



- 9 Professors
- 18 Lecturers/Senior Lecturers/Reader
- 29 Post doc researchers
- 7 Teaching Fellows/Senior Teaching Fellows
- 'Visiting' teaching staff
- 25 Technical & Administrative support staff
- 180 UG (M Pharm) students per annum
- 88 PhD students
- 100 CPPE team members

We also run 8 different Postgraduate Taught courses leading to a Masters Qualification:



Outcomes of the PTQA/CPS

- NHS service led curriculum
- Patients and service
- Safety and quality
- Career development
- Future workforce: Developments, capacity and planning

MSc in PTQA/CPS : Administrative Team



MANCHESTER

1824



Strong links with NHS Trusts

- Stockport NHS Foundation Trust (CPS & MPharm)
 - Classical Manufacturing
 - Aseptic services
 - QA/QC services
- Calderdale and Huddersfield NHS Foundation Trust
 Classical Manufacturing
- Central Manchester NHS Foundation Trust
 - Radiopharmacy





Patient / Service User Engagement

- Programme issues
 - Limited patient facing opportunities
 - Significant contribution such as drug safety, quality of medicines, chemotherapy, neonatal CIVAS, etc
- Examples of involvement
 - Use pathways in teaching
 - Explain role to a lay group
 - Discussion forums
 - Patient talks about experiences









Clinical Pharmaceutical Science





Our ethos and culture











Specialities

What does each speciality do?









Radiopharmacy

Overview of Radiopharmacy activities

Radiopharmacy

•Manufacture and supply of radio-medicinal products to nuclear medicine

- Majority ^{99m}Tc products
- Variety of dosage forms majority administered intravenously
- Sterile and free from pyrogens

Quality Assurance

- Compliance with regulations very regulated speciality
- Quality Control of products

•Clinical pharmaceutical care

- Nuclear medicine work as part of a multidisciplinary team
- Provide clinical pharmaceutical service to nuclear medicine eg. Advise on medication interactions, medicines to enhance diagnostic studies

•Research, Development and Audit

- Basic scientific research
- Clinical trials of radiopharmaceuticals

Education and Training

 Multidisciplinary – provide training to medical doctors, physicists, radiographers, pharmacists



Overview of Pharmaceutical Production activities

Production

Non-sterile batch manufacture

- Oral solutions and suspensions
- Topical solutions

•Sterile batch manufacture

- Ampoules
- Infusion bags

Starting material supplier approval

- Tracing supply chain and approval of all parties
- Testing based on supply chain pedigree

Distribution

- Sale and dispatch of products and associated record keeping
- Extemporaneous preparation
 - Individual patient

Research and Development

- New products
- Stability assessment and shelf life allocation

- Creams and ointments
- Suppositories
- Vials
- Intermediates



Overview of Aseptic Preparation activities

Aseptics

•Farwell

Contaminated TPN

•NPSA 20

- Risks of ward-based preparation

Batches or individual doses

- Licensed
- S10

Product types

- Chemotherapy
- CIVAS
- TPN

•Clinical trials



Overview of QA & QC activities

QA & QC

•QA

- Batch release for classical manufacturing units
- Support manufacturing units on all aspects of QA, GMP etc
- Document approval (SOPs, BMRs, product labels etc)
- Raw material supplier approval
- Audit
- Advice

•QC

- Chemistry, Microbiology, R&D
- Raw material testing
- In-process testing
- Product testing
- R&D (new products, method development etc)
- Test validation
- Stability trials

Radiopharmacy

Questions