

**Proposal on**

**WINFOCUS**

**Advanced Ultrasound Fellowship**

**(FAWUS)**



**FAWUS Fellowship Proposal**   
International | Primarily Virtual | 12-Month Program

One scan, One learner, One region at A time

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**Advanced WINFOCUS Ultrasound Fellowship Program (FAWUS)**

1. **Introduction**

***What is this fellowship, and why does it matter?***

Point of-care ultrasound (POCUS) is one of the most powerful tools in modern medicine, real-time, bedside, portable, and cost-effective. From emergency departments in major cities to field clinics in rural regions, ultrasound helps clinicians make faster, more informed decisions and improve patient care. But having the machine isn’t enough.

To make ultrasound truly impactful, we need **clinicians who know how to use it well and teach it even better**. That’s where the **WINFOCUS Advanced Ultrasound Fellowship (FAWUS)** comes in.

***Why This Fellowship Exists?***

POCUS use is growing rapidly around the world, but access to high-quality training remains uneven. There are more than 150 fellowship programs in the United States alone but there is scarcity of fellowship trained clinicians worldwide. Many clinicians are performing POCUS, but few have had the chance to focus deeply on **education, program development, and research**— the key ingredients for building long-term impact in their institutions and regions.

This fellowship was created to fill that gap, to give experienced POCUS users the structure, mentorship, and global network to become leaders in the field.

***What is the Mission Behind It?***

The mission of the **FAWUS Fellowship** is simple but ambitious:

**“To build a global network of ultrasound educators and leaders who can teach, mentor, research, and scale high-quality POCUS training — anywhere in the world.**

Through this program, WINFOCUS aims to:

* Support **clinicians in building local and regional POCUS programs**
* Develop a worldwide **network of POCUS experts and educators**
* Promote **standardized education, research, and quality assurance**
* Expand access to ultrasound in **underserved and resource-limited areas**
* Invest in the next generation of **global health ultrasound leaders**

***What Fellows Will Gain?***

This 12-month fellowship is not just a course — it’s a launchpad.

Fellow will receive:

* **Structured clinical training** (500+ scans logged and reviewed)
* **A curated curriculum** via the WINFOCUS Academy and partner institutions
* **Mentorship** from both local and international experts
* **Hands-on teaching opportunities** across courses, webinars, and regional events
* **Research guidance** to contribute to ultrasound knowledge and innovation
* A growing **international community** of peers, collaborators, and future faculty

***The Infrastructure We’re Building***

The fellowship is part of a broader vision to build a sustainable, interconnected POCUS education ecosystem. This includes:

* A **global directory of trained ultrasound faculty and mentors**
* A network of **Fellowship Partner Institutions (FPIs)** supporting training across regions
* A central **digital learning platform (WINFOCUS Academy)** hosting high-quality content
* A framework for **regional WINFOCUS course development**
* Support for **POCUS-based outreach and global health missions**

Graduates of the FAWUS fellowship will become part of this infrastructure — not just as participants, but as **leaders, trainers, and changemakers**.

***A Fellowship with Flexibility and Purpose***

This fellowship is designed with busy clinicians in mind. Most of the learning is virtual and asynchronous, supported by monthly mentorship and interactive forums. Fellow clinical work remains at their local institution, but they will be part of something much larger, a **global movement** toward better POCUS training, access, and patient care.

***Why Now, and Why Us?***

There’s currently no other organization — local or international— with the reach, track record, and infrastructure that WINFOCUS has. We already operate across dozens of countries, in partnership with leading universities, hospitals, and health systems. We’re not starting from scratch — we’re scaling what already works.

Other programs may teach POCUS, but none are focused on:

* **Developing educators**
* **Recognizing international POCUS leaders**
* **Building long-term regional training hubs**
* **Supporting decentralization and sustainability of global POCUS education**

There’s no need for a “perfect” program with all-or-nothing outcomes. What matters is progress — and that’s already embedded in the mission, model, and daily practice of WINFOCUS. **This fellowship is just the next step.**

Welcome to the WINFOCUS Advanced Ultrasound Fellowship.  
Let’s grow this together — one scan, one learner, one region at a time.

**2. Fellowship Goals**

The program is focused on a few core objectives:

* Train ultrasound educators who can lead programs globally
* Recognize and formalize the training of international physicians already skilled in POCUS
* Improve ultrasound teaching and research skills among practicing clinicians
* Create a common standard and recognition for international ultrasound educators
* Promote innovation and research in ultrasound education
* Expand WINFOCUS’s global presence and capacity-building efforts
* Identify local champions and mentors to help grow the WINFOCUS mission

**3. Fellowship Structure**

This will be a 12-month structured program that blends virtual education, clinical practice, real-world teaching, and mentorship. Here’s how it’s organized:

* Core Curriculum (Virtual):
  + Fellows will study advanced ultrasound topics like physics, image acquisition and interpretation, and teaching strategies. (Detailed in the FAWUS Curriculum Handbook)
  + The material will be delivered through an interactive online platform within **"WINFOCUS Academy"**. Most training will be provided through the Academy, and some specific topics will be provided by **WINFOCUS Fellowship Partner Institutions (FPIs).**
* Clinical Training:
  + Fellows must log at least 500 scans over the year, verified by their local ultrasound director or senior faculty. They should also be actively using POCUS in daily clinical practice under mentor supervision. (We only require the signed verification form.)
* Educational Development:
  + Fellows will be trained in curriculum design, assessment methods, faculty development, and educational technologies. Progress must be confirmed by the local program director or ultrasound faculty.
* Teaching Experience:
  + Fellows will actively teach in WINFOCUS courses, webinars, and national meetings. This hands-on involvement is a key part of the program.
* Regional Course Development:
  + Each fellow will be responsible for organizing and leading at least one WINFOCUS-supported course in their region.
* Research Component:
  + Fellows will work on at least one research project or contribute to an ultrasound education publication. They’re expected to present this work at a national or international meeting.
* Global Health & Outreach:
  + Fellows will have the chance to support ultrasound education efforts in underserved or low-resource settings, aligned with WINFOCUS’s global health mission.
* WINFOCUS Involvement:
  + Fellows will take part in workshops, special projects, and ongoing initiatives across the WINFOCUS network to gain real experience and grow their professional network.

**4. Fellowship Leadership**

This fellowship leadership include:

* Fellowship Chief/Director
* Five Fellowship APDs from different regions
* WINFOCUS Academy Director
* FAWUS Faculty-
  + WINFOCUS BODs (if volunteered)
  + Representatives from FPIs in different countries
  + Faculty should be US fellowship-trained of pioneer in the field
  + Research mentors from other specialties with strong reputation and participation will be designated as FAWUS faculty.
* Fellowship Coordinator

**4. Eligibility Criteria**

This fellowship is open to:

* Physicians or registrars from specialties like emergency medicine, internal medicine, critical care, anesthesia, pediatrics, family medicine, and more
* Clinicians with prior experience in POCUS and a strong interest in education
* Individuals committed to contributing to ultrasound teaching and research
* Candidates willing to engage in global health efforts
* Applicants must suggest two potential mentors, including at least one local faculty member
* Fellows must either cover the tuition fee themselves or secure full or partial sponsorship (scholarship options may be available)

**5. Implementation & Support**

* Fellowship Partner Institutions (FPIs):
  + The program will be hosted by major hospitals or academic centers that collaborate with WINFOCUS. These FPIs will support both the virtual and in-person components of the program.
  + A Memorandum of Understanding (MOU) will be signed between the institutions and Fellowship Chief.
    - The FAWUS Fellowship Faculty institutions will be set as the FPI directory unless an opt out request provided by faculty.
  + This collaboration will include but no limited to the possibility of fellows rotating on their US programs, including their faculty as the FAWUS faculty, giving virtual lectures and including them in research collaborations.
* Mentorship & Faculty:
  + Fellows will be guided by a team of experienced ultrasound educators from WINFOCUS. Applicants should propose two mentor names (confirmed later by the FAWUS leadership team).
  + Local mentors on teaching, and research will be identified and assigned.
  + A core pool of potential mentors and faculty will be included in a directory in which fellows can identify and chose based on mutual interest and availability.
* Funding & Sustainability:
  + WINFOCUS and FAWUS leadership will work on securing funding through sponsorships, institutional support, and industry partnerships.
  + Fellows may be funded either fully or partially based on available scholarships or external funding.
  + The Annual academic year tuition will be set be the FAWUS and WINFOCUS leadership.
    - The suggested annual tuition fee will be $10,000 which will be supported by sponsors, scholarship and self-pay.
    - The maximum out-of-pocket pay should not exceed 3 months of applicant’s salary- confirmed by the most recent year led to the January 1st of their fellowship year.
    - The process of securing and fund transaction will be set by the WINFOCUS administration team
    - An automatic cancelation of fellowship enrollments will take place if the fund is not received by the end of first quarter of their fellowship.
    - A request on candidacy cancellation after acceptance will result in 2 months tuition fee which will not be refunded.
* Evaluation & Certification:
  + Fellows will be assessed through:
  + Review of their scan logbook
  + Feedback on their teaching performance
  + Their research or publication contribution
  + Participation in educational activities
  + A final virtual exam
* Fellows who meet all the requirements will receive the official “**Advanced WINFOCUS Ultrasound Fellowship”** Certificate.
* FAWUS Designation:
  + Graduates of the program will be awarded the title ***FAWUS (Fellow in Advanced WINFOCUS Ultrasound)*** during a ceremony at the WINFOCUS Annual Meeting.

**6. Communication & Coordination Plan**

* **Monthly Fellow Forum:** Virtual meeting with all fellows and leadership for updates and shared learning.
* **Quarterly Progress Reports:** Fellows submit short updates on clinical scans, teaching activities, and research.
* **Shared Digital Platform:** A central fellowship portal will host resources, logbooks, and discussion boards.
* **Annual Fellowship Report:** Summarizes program outcomes, fellow achievements, and areas for improvement.

**7. Expected Outcomes & Impact**

By launching this fellowship, we aim to:

* Build a strong global network of trained ultrasound educators
* Promote best practices and standardize ultrasound teaching worldwide
* Support innovation and academic work in ultrasound education
* Increase access to ultrasound training, especially in underserved regions
* Strengthen WINFOCUS’s leadership role in ultrasound training
* Recognize and empower local mentors to grow the global POCUS community

**8. Timeline for First Cohort (2026–2027)**

* **Jan–Mar 2026:** Fellowship application, selection, and onboarding
* **Apr-June 2026:** Official launch and orientation
* **July–June 2027:** Core curriculum, clinical scanning, teaching activities, research initiation
* **Oct- Dec 2026:** WINFOCUS Scientific meeting membership and course development
* **Jan–Mar 2027:** Regional course organization, project completion, exam prep
* **June 2027:** Final review, certification.
* **Nov-Dec 2027:** FAWUS designation ceremony at the 2027 WINFOCUS annual conference.

**9. Sample Budget & Funding Breakdown**

**Fellowship Duration:** 12 months  
**Cohort Size (Year 1 Pilot):** 5 fellows

**Estimated Expenses per Fellow**

1. **Tuition & Program Administration** – **$3,500**
   * Access to WINFOCUS Academy (modules, online exams, IT support)
   * Administrative costs (coordination, certification, mentor support)
   * Fellowship management platform
2. **Faculty & Mentorship Stipends** – **$1,500**
   * Honorarium for WINFOCUS mentors and FPI faculty
   * Covers mentor time for reviews, feedback, and quarterly check-ins
3. **Regional Course Development Support** – **$1,000**
   * Seed funding for logistics (venue, printing, ultrasound machine rental if needed)
   * Promotional material and online registration support
4. **Research & Publication Support** – **$500**
   * Statistical or editorial assistance
   * Abstract submission fees
   * Partial coverage for conference registration
5. **Certification & Graduation** – **$500**
   * Certificate preparation, FAWEUS designation, award ceremony at Annual Meeting
   * Alumni database integration

**→ Total Estimated Cost per Fellow: $7,000**

**Funding Sources**

1. **Tuition (Base Contribution by Fellow):** $4,000-6,000
   * Fellow covers part of training cost directly
2. **Scholarships (WINFOCUS/Partner Support):** $2,000-4,000
   * For selected fellows from LMICs (low- and middle-income countries)
3. **Institutional Sponsorships:** $2,000-6,000
   * Local hospital/university support for their fellow
4. **Industry/External Partnerships:** $500
   * Educational grants, ultrasound device companies, NGOs

**→ Total Funding per Fellow: $10,000**

**Projected Year 1 Budget (5 Fellows)**

* **Total Expenses:** $50,000
* **Funding Mix (example):**
  + Fellows’ Tuition: $25,00 (50%)
  + WINFOCUS Scholarships: $15,000 (30%)
  + Institutional Sponsorships: $5,000 (10%)
  + Industry/Partnership Grants: $5,000 (10%)

**Sustainability Plan**

* As fellowship grows (target 10 fellows/year by Year 3), tuition + external sponsorships will cover the majority of costs.
* Regional courses led by fellows can generate income (registration fees, local sponsorships) to reinvest into scholarships.
* Long-term aim: Create an **endowed fellowship fund** for supporting LMIC fellows fully.

**10. Sample Tuition Model – FAWUS**

**Duration:** 12 months

To support equity and participation from diverse regions, tuition will be based on the fellow’s country income level (following **World Bank classifications**).

**Tuition Tiers**

1. **High-Income Countries (HIC):** **$8,000-$10,000**
   * Full tuition covering administrative costs, faculty stipends, and certification
   * Fellows from HICs are expected to contribute full tuition or secure institutional sponsorship
2. **Upper-Middle-Income Countries (UMIC):** **$6,000-$8,000**
   * Reduced tuition supported partly by WINFOCUS scholarships and sponsorships
   * Encourages participation from emerging academic hubs
3. **Lower-Middle-Income Countries (LMIC):** **$5,000-$6,000**
   * Heavily subsidized by WINFOCUS and industry/NGO sponsorships
   * Fellows are strongly encouraged to apply for local institutional co-funding
4. **Low-Income Countries (LIC):** **$3000–$5,000**
   * Minimum tuition to ensure commitment
   * Majority of costs covered by WINFOCUS global scholarships and external partnerships

**Example Cohort Mix (10 Fellows)**

* 2 Fellows from HIC → $16,000 total
* 3 Fellows from UMIC → $18,000 total
* 3 Fellows from LMIC → $15,000 total
* 2 Fellows from LIC → $6,000 total

**→ Total Tuition Collected:** $55,000

**Supplemental Funding Sources**

* **WINFOCUS Global Scholarship Fund:** $15,000/year (raised from grants, donations, and partner institutions)
* **Industry/Educational Partnerships:** $10,000/year (equipment companies, NGOs, academic sponsors)
* **Regional Course Revenue (led by fellows):** ~$5,000/year reinvested into fellowship support

**→ Total Program Budget per 10 Fellows:** ~$57,000

**Key Notes for Implementation**

* Fellows must indicate tuition tier at the time of application, with proof of country classification.
* Local institutional sponsorships are encouraged, especially for LMIC/LIC fellows.
* WINFOCUS will prioritize scholarships for fellows from underserved regions with high training needs.
* Long-term plan: build an **endowment** to fully support at least 5 fellows annually from LMIC/LIC.

**11. 3-Year Financial Projection – WINFOCUS Advanced Ultrasound Fellowship**

**Assumptions:**

* Fellowship length: 12 months
* Tuition tiers based on World Bank income groups (HIC, UMIC, LMIC, LIC)
* Scholarships partly supported by WINFOCUS, institutions, and partners
* Cohort grows gradually as program gains visibility and infrastructure

**Year 1 (Pilot Launch – 5 Fellows)**

* **Cohort Mix:**
  + 1 HIC ($4,500) = $4,500
  + 1 UMIC ($3,500) = $3,500
  + 2 LMIC ($2,000 each) = $4,000
  + 1 LIC ($500) = $500
  + **Tuition Subtotal = $12,500**
* **Supplemental Funding:**
  + WINFOCUS Scholarships: $10,000
  + Institutional Sponsorships: $5,000
  + Industry/Educational Grants: $7,500
  + **Total Funding = $22,500**
* **Total Year 1 Budget = $35,000**
* Outcome: Small, proof-of-concept cohort with heavy scholarship support.

**Year 2 (Expansion – 10 Fellows)**

* **Cohort Mix:**
  + 2 HIC ($9,000)
  + 3 UMIC ($10,500)
  + 3 LMIC ($6,000)
  + 2 LIC ($1,000)
  + **Tuition Subtotal = $26,500**
* **Supplemental Funding:**
  + WINFOCUS Scholarships: $15,000
  + Institutional Sponsorships: $10,000
  + Industry/Educational Grants: $10,000
  + Regional Course Revenue (fellows-led): $5,000
  + **Total Funding = $40,000**
* **Total Year 2 Budget = $66,500**
* Outcome: Double the fellows, stronger regional course presence, less reliance on direct scholarships.

**Year 3 (Scale-Up – 15 Fellows)**

* **Cohort Mix:**
  + 3 HIC ($13,500)
  + 4 UMIC ($14,000)
  + 5 LMIC ($10,000)
  + 3 LIC ($1,500)
  + **Tuition Subtotal = $39,000**
* **Supplemental Funding:**
  + WINFOCUS Scholarships: $20,000
  + Institutional Sponsorships: $15,000
  + Industry/Educational Grants: $15,000
  + Regional Course Revenue: $10,000
  + **Total Funding = $59,000**
* **Total Year 3 Budget = $98,000**
* Outcome: Fellowship becomes sustainable — ~40% funded by tuition, ~60% by external support. Regional courses and alumni network now reinvest back into the program.

**3-Year Summary**

* **Total Fellows Trained:** 30
* **Total Program Budget (3 years):** ~$200,000
* **Funding Mix Trend:**
  + Year 1 → 36% tuition, 64% external
  + Year 2 → 40% tuition, 60% external
  + Year 3 → 44% tuition, 56% external

**Long-Term Sustainability Vision**

* By Year 4–5: Fellowship stabilizes at 20 fellows/year.
* Launch of **WINFOCUS Fellowship Alumni Fund** — alumni contribute to scholarships for LMIC/LIC fellows.
* Goal: Self-sustaining model where tuition + alumni + industry support fully fund the program without heavy reliance on WINFOCUS core budget.

Appendix1. **WINFOCUS Educational Ultrasound Fellowship Components**

|  |  |  |
| --- | --- | --- |
| Component | Description | Requirement |
| Core Curriculum | Virtual learning on advanced ultrasound topics and teaching methods using WINFOCUS Academy | Complete all online modules through WINFOCUS Academy platform |
| Clinical Training | Hands-on scanning in clinical settings under supervision | Minimum 500 scans, verified by local ultrasound director |
| Educational Development | Training in curriculum design, assessment, and faculty growth | Confirmed by local mentor or faculty |
| Teaching Experience | Active participation as an educator in WINFOCUS activities | Involvement in WINFOCUS courses, webinars, or national events |
| Regional Course | Plan and lead ultrasound training locally | Directorship of at least one WINFOCUS-supported course |
| Research Project | Contribute to or lead a study in ultrasound education or application | Minimum one project, presented at a national or international meeting |
| Global Outreach | Teach or support ultrasound training in underserved regions | Participation in at least one outreach activity (optional but encouraged) |
| WINFOCUS Involvement | Engagement in ongoing WINFOCUS projects and network building | Attendance in workshops, meetings, or special projects |
| Evaluation | Final assessment and competency review | Verified logbook, teaching review, research submission, and online exam |
| Certification | Fellowship Certificate + FAWEUS designation | Awarded at the WINFOCUS Annual Meeting upon successful completion |

Appendix 2. **Administrative Process Flow – FAWEUS Fellowship Program**

**1. Application & Selection Phase**

Step 1: Application Submission

* Fellow submits application form
* Uploads required documents (CV, proof of POCUS experience, motivation letter)
* Suggests 3 potential mentors (1 must be local)
* Proposes a host institution

Step 2: Initial Review

* Admin checks eligibility
* Forwards to Fellowship Committee

Step 3: Committee Review & Approval

* Fellowship leadership reviews application and mentor suggestions
* Final decision on acceptance
* Funding/scholarship decision including scholarship for the first 3 fellows (if applicable)

*Output: Acceptance letter, tuition/sponsorship agreement, assigned WINFOCUS mentor(s)*

**2. Program Onboarding**

Step 4: Orientation

* Welcome email & login access to the WINFOCUS platform
* Fellowship timeline & expectations shared
* Introduction to local and WINFOCUS mentors

Step 5: Onboarding Package

* Logbook template
* Teaching activity tracker
* Research proposal form
* Verification form for scans and educational milestones

*Output: Fellow is set up and starts the 12-month journey*

**3. Fellowship Year (Training Phase)**

Step 6: Core Curriculum (Ongoing)

* Virtual modules completed through online platform
* Periodic quizzes or check-ins

Step 7: Clinical Training

* Fellow logs daily scans
* Monthly or quarterly sign-off by local POCUS director

Step 8: Teaching Experience

* Fellow co-teaches WINFOCUS courses/webinars
* Involves in national meetings or local workshops

Step 9: Research/Project Work

* Fellow works on one research project (publication or presentation)
* Regular mentor check-ins

Step 10: Regional Course Planning

* Fellow proposes and leads a regional WINFOCUS course
* Coordinates with WINFOCUS for logistics/sponsorship

*Output: Ongoing documentation of work and progress via mentor check-ins*

4. Completion & Graduation

Step 11: Final Review

* Submit:
  + Scan logbook (min 500 scans)
  + Teaching activity log
  + Research/presentation summary
  + Verification forms
* Virtual final assessment/exam

Step 12: Certification & Recognition

* Fellowship Certificate
* FAWEUS designation awarded at Annual Meeting
* Alumni profile added to WINFOCUS network

*Output: Fellowship completed successfully*

[Application Submission]

↓

[Admin Eligibility Check]

↓

[Fellowship Committee Review]

↓

[Acceptance & Mentor Assignment]

↓

[Orientation + Onboarding]

↓

[Start of 12-Month Fellowship]

↓

[Online Curriculum Modules]

[Clinical Scan Log (500)]

[Teaching Activities (Courses/Webinars)]

[Research Project]

[Regional Course Planning]

↓

[Final Review + Virtual Exam]

↓

[Certificate + FAWEUS Award]

↓

[Alumni Network Integration]

**Appendix 3.** WINFOCUS Advanced Educational Ultrasound Fellowship

3-Year Financial Projection (Pilot to Scale-Up)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year | Fellows | Tuition Collected | Scholarships (WINFOCUS/NGOs) | Institutional Sponsorships | Industry/Grants | Regional Course Revenue | Total Funding | Total Budget |
| Year 1 (Pilot) | 5 | $12,500 | $10,000 | $5,000 | $7,500 | – | $35,000 | $35,000 |
| Year 2 (Expansion) | 10 | $26,500 | $15,000 | $10,000 | $10,000 | $5,000 | $66,500 | $66,500 |
| Year 3 (Scale-Up) | 15 | $39,000 | $20,000 | $15,000 | $15,000 | $10,000 | $98,000 | $98,000 |

**Funding Mix Trend (3 Years)**

* **Tuition:** 36% → 40% → 44%
* **External Support (scholarships, sponsorships, grants, courses):** 64% → 60% → 56%

**3-Year Outcomes**

* **30 fellows trained** across 3 years
* Stronger **regional course network** generating income and visibility
* By Year 3 → **nearly half self-funded through tuition**, with scholarships focused on LMIC/LIC fellows
* Clear path to **sustainability** by Year 4–5 with 20 fellows annually

### Best Overlap Window for Meetings

To catch all groups **during normal working hours**, your best bet is usually:

**UTC 7:00 AM – 9:00 AM**

Which is:

* **Africa (e.g., Nigeria/Kenya):** 8:00–10:00 AM
* **Middle East (e.g., UAE):** 11:00 AM–1:00 PM
* **Malaysia:** 3:00–5:00 PM

This is a good working overlap where no one has to stay up late or wake up crazy early.

### ✅ Tips for Scheduling Across These Zones

1. **Use a Scheduling Tool**  
   Try tools like:
   * **World Time Buddy**
   * **Time Zone Converter (timeanddate.com)**
   * **Doodle** with time zone setting enabled
2. **Propose 2 Time Options**  
   When sending out invites, offer 2 choices (ideally 1 weekday and 1 weekend option) to make it easier for everyone.
3. **Rotate Meeting Times (for fairness)**  
   If it's a recurring meeting (like monthly check-ins), rotate the time slots so it’s not always hard on one group.
4. **Set Everything in UTC**  
   Always communicate meeting times in **UTC** to avoid confusion. Add a tool or link so they can convert it easily.
5. **Record the Session**  
   In case someone can’t make it, record the call and share a summary or key notes.

### Sample Message Template to Propose a Meeting

Subject: Fellowship Intro Call – Proposing Time Options

Dear Fellows,

We'd like to set up our first group meeting to kick off the fellowship and introduce everyone.

Since we have participants from different regions (Africa, Middle East, and Malaysia), we’re aiming for a time that works for most. Please let us know which of these slots work better for you:

**Option 1:** Thursday at 07:30 AM UTC  
**Option 2:** Saturday at 08:00 AM UTC

You can reply directly or fill out this quick [Doodle poll link].

We'll finalize the time based on majority availability and send a calendar invite.

### **Payment Options for Tuition**

#### **1. Bank Transfer (Wire Transfer / SWIFT)**

* **How it works:** You provide WINFOCUS’s official bank account details (including IBAN, SWIFT code, and full bank address).
* **Best for:** Large payments and applicants who have access to formal banking.
* **Tip:** Clearly state any transfer fees must be covered by the sender (to avoid short payments).

Pro: Widely accepted  
Con: Expensive fees and longer processing time (3–7 days)

#### **2. Online Payment Platforms**

Here are a few options you can consider (if WINFOCUS sets up an account):

##### a. **Wise (formerly TransferWise)**

* Lower fees than banks
* Supports bank-to-bank payments
* Very reliable in Africa, Middle East, and Asia

Pro: Fast and cost-effective  
Con: Requires setting up a WINFOCUS Wise account

##### b. **PayPal**

* Easy to set up a WINFOCUS business account
* Fellows can pay using PayPal balance or credit/debit card

Pro: Familiar to many users  
Con: Higher fees (especially for international business transfers)

#### **3. Payment Links or Invoice System (Stripe or PayPal Business)**

* WINFOCUS can send an invoice with a **"Pay Now"** link
* Fellows can pay using credit card, debit card, or PayPal
* Auto-generates receipts

Pro: User-friendly, easy for applicants  
Con: Requires initial setup (Stripe or PayPal Business account)

#### **4. Scholarships or Third-Party Sponsorship**

If the fellow is funded by an institution or external sponsor:

* Provide a **formal invoice** or letter with:
  + WINFOCUS’s payment info
  + Tuition breakdown
  + Program dates

Sponsor can then pay directly by bank transfer or request an invoice through their system.

### Suggested Wording to Share with Applicants

**Tuition Payment Instructions**

Once your fellowship acceptance is confirmed, tuition payment must be completed before [insert deadline].

**Payment Options:**

1. **Bank Transfer (SWIFT/Wire):**  
   Bank Name: [Bank Name]  
   Account Name: [WINFOCUS or full legal name]  
   IBAN: [Insert]  
   SWIFT/BIC: [Insert]  
   Bank Address: [Insert]  
   Note: Please cover all transfer fees. Email proof of payment to [email address].
2. **Online Payment (PayPal or Wise):**
   * We’ll provide a secure payment link or invoice
   * Pay with credit/debit card, PayPal, or local bank transfer (based on your country)
3. **Scholarship/Sponsor Payments:**
   * If your tuition will be paid by an institution or sponsor, let us know so we can issue a formal invoice.

### Recommendations for WINFOCUS Admin

* Set up a **Wise Business** or **PayPal Business** account for easier global payments
* Add a **clear "Tuition Payment" page** on the WINFOCUS website with all options listed
* Offer **automated receipts** for fellows once payment is confirmed
* Always ask for **proof of payment** (screenshot or receipt) to avoid delays
* Track payments in a simple spreadsheet or CRM

### **INVOICE**

**WINFOCUS – World Interactive Network Focused on Critical Ultrasound**  
[WINFOCUS Address / Country]  
[admin@winfocus.org]  
www.winfocus.org

**Invoice Number:** WF-2025-001  
**Date Issued:** 01 September 2025  
**Due Date:** 30 September 2025

**Billed To:**  
Name: Dr. [Full Name]  
Email: [applicant@email.com]  
Country: [Country]

### **Description of Services**

| **Item** | **Amount (USD)** |
| --- | --- |
| Tuition Fee – WINFOCUS Advanced Educational Ultrasound Fellowship (2025–2026 Cohort) | $2,000.00 |
|  |  |
| **Total Amount Due** | **$2,000.00** |

### **Payment Instructions**

#### Option 1: **Bank Transfer (SWIFT / Wire)**

**Account Name:** [WINFOCUS or legal entity name]  
**Bank Name:** [Your Bank Name]  
**Bank Address:** [Full address of the bank]  
**IBAN:** [Insert IBAN]  
**SWIFT/BIC Code:** [Insert SWIFT]

Important: Please ensure all bank charges are covered on your side. Send proof of payment to **[email address]** once the transfer is completed.

#### Option 2: **PayPal / Credit Card**

You can request a secure payment link via PayPal.  
Contact us at **[admin@winfocus.org]** to receive your invoice with a Pay Now button.

#### Option 3: **Sponsorship / Institution Payment**

If your tuition is covered by a sponsoring organization, please provide their billing contact and we will issue an official invoice directly.

If you have any questions or need support with payment, feel free to reach out.

Thank you,  
**WINFOCUS Fellowship Admin Team**  
[admin@winfocus.org]

## **Advanced WINFOCUS Clinical Ultrasound Fellowship**

### Format: 12-Month, Primarily Virtual

**Audience:** International physicians and APPs with POCUS experience  
**Focus Areas:** Clinical excellence, education, teaching, research, and global health

Fellowship Curriculum Overview

| **Core Area** | **Component** | **Delivery** |
| --- | --- | --- |
| Clinical Scanning | 500+ verified scans, diverse POCUS applications, supervised by local mentors | Local, In-clinic |
| Education & Teaching | Lecture prep, co-teaching WINFOCUS webinars, regional course development | Virtual + Local |
| Core Curriculum | Advanced POCUS modules (physics, applications, image review, artifacts) | Online (Self-paced) |
| Research | 1 research project + optional publication/presentation at a conference | Virtual / Local data |
| Administration | Basics of program management, quality, image workflow, billing, and program setup | Online modules |
| QA & Feedback | Ongoing logbook review, case discussions, structured peer feedback | Online / Regional |
| Global Outreach | Optional field training, capacity building in low-resource regions | Optional, In-person |
| WINFOCUS Engagement | Join international events, fellowships calls, journal clubs, and project groups | Virtual |

## Detailed Curriculum Breakdown

### **1. Scanning & Clinical Integration**

* **Goal:** Reach independent level in POCUS image acquisition + interpretation
* **Requirement:** Minimum 500 scans, across core and advanced applications
* **Verification:** Logbook signed by local ultrasound lead or faculty
* **Scope:** Abdominal, cardiac, lung, DVT, MSK, procedural, OB/GYN, ocular, etc.

### **2. Core Educational Modules (Virtual)**

Topics to be covered via interactive online lectures, journal articles, and recorded videos:

* **Ultrasound Physics & Instrumentation**  
  (Knobology, Doppler, Artifacts, Bioeffects)
* **Clinical Applications:**
  + Trauma (FAST/eFAST, aorta, lung)
  + Cardiac (basic & advanced echo)
  + OB/GYN (TVUS, early pregnancy, pelvic)
  + Abdominal (RUQ, kidneys, bladder, appendix)
  + Procedural guidance (vascular access, nerve blocks)
  + Soft tissue, MSK, ocular, DVT
  + Pediatric & global health considerations
* **Quality and Safety:**
  + QA principles
  + Scan documentation and feedback
  + Reducing error in image interpretation
* **Teaching Skills:**
  + Building and delivering ultrasound lectures
  + Small group teaching strategies
  + Educational video creation
* **Admin & Leadership:**
  + Basics of running an ultrasound program
  + Billing and documentation
  + Machine maintenance
  + Course development

### **3. Teaching & Course Participation**

* Teach in at least **two WINFOCUS webinars or courses**
* Create a **regional WINFOCUS course or workshop**
* Develop and present **minimum 2 ultrasound lectures**
* Create one teaching video or digital education asset

### **4. Research & Scholarship**

* Design and complete at least **one project** (study, QI initiative, or review)
* Submit for **conference presentation** or peer-reviewed publication
* Present results at WINFOCUS or international meeting (virtual or in-person)

### **5. Global Health & Outreach (Optional)**

* Fellows can apply to join WINFOCUS outreach programs in underserved regions
* Focus on training local providers and building sustainable education models

### **6. QA & Evaluation**

* Review 50% of scanned images with feedback from mentor
* Submit selected cases for group review
* Participate in 3–4 peer review calls or QA webinars

### **7. Milestones & Evaluation**

* **Quarterly Check-Ins** with program mentors (WINFOCUS + local)
* **Final Competency Review:**
  + Logbook complete (500 scans)
  + Teaching contributions verified
  + Research submitted or presented
  + Online knowledge assessment
* **Certificate of Completion + FAWEUS Designation**

## Sample Timeline

| **Month** | **Focus** |
| --- | --- |
| 1 | Orientation, baseline scan review, core modules start |
| 2–3 | Supervised scanning, online curriculum, teaching prep |
| 4–6 | Present 1st lecture, regional course planning, research proposal |
| 7–9 | QA participation, teaching, global health (optional) |
| 10–12 | Submit research, present at conference, final case reviews |

## Handbook Sections (Customized for WINFOCUS)

You can adapt the MGH Handbook structure like this:

### I. Overview

Purpose, format, eligibility, WINFOCUS mission

### II. Leadership & Mentorship

List of WINFOCUS leaders, assigned mentors, and roles

### III. Curriculum

Detailed module descriptions as listed above

### IV. Scanning Requirements

Logbook templates, supervision options, tracking tools

### V. Teaching

Lecture guidance, sample slides, video standards

### VI. Conferences & Journal Clubs

Schedule of virtual meetings, expected participation

### VII. Research

Project examples, timelines, publication guidelines

### VIII. Administration

Course planning templates, billing basics, image management

### IX. Global Engagement

Opportunities for fellows, application process for travel

### X. Evaluation

Mentor review forms, exam formats, completion checklists

# **Fellowship Handbook**

### Section: **Curriculum**

**Program:** Advanced WINFOCUS Clinical Ultrasound Fellowship  
**Format:** 12-Month, International, Mostly Virtual  
**Fellow Type:** Experienced clinicians with strong interest in education, clinical ultrasound, and global collaboration

## **Curriculum Goals**

The curriculum is designed to:

* Strengthen core and advanced POCUS knowledge and technical skills
* Prepare fellows to teach and lead ultrasound education locally and internationally
* Encourage participation in ultrasound-based research
* Develop administrative and program development skills
* Support global health collaboration and outreach

## **Curriculum Components**

### 1. **Core Didactic Modules (Virtual Learning)**

Fellows will complete a structured series of online learning modules. These include video lectures, assigned readings, and discussion-based webinars.

#### Topics:

* **Ultrasound Physics & Instrumentation**
  + Knobology, resolution, Doppler principles
  + Common artifacts and troubleshooting
  + Bioeffects and ALARA principle
* **Image Acquisition & Interpretation**
  + Basic and advanced cardiac ultrasound
  + eFAST, trauma scanning
  + RUQ, renal, bladder, biliary tree
  + OB/GYN (transabdominal and transvaginal)
  + MSK, ocular, soft tissue
  + DVT and vascular protocols
* **Procedural Ultrasound**
  + Vascular access (central, peripheral)
  + Nerve blocks
  + Paracentesis, thoracentesis
  + Pericardiocentesis, LP, foreign body removal
* **Critical Care Ultrasound**
  + IVC, fluid status
  + Lung and pleural ultrasound (BLUE protocol)
  + RUSH and shock evaluation
  + Diastology and advanced cardiac measures
* **Special Topics**
  + Pediatric ultrasound
  + Global health applications
  + Billing, documentation, and program management
  + Teaching with ultrasound: pedagogy and presentation skills

### 2. **Clinical Scanning & Skill Development**

Fellows must complete a **minimum of 500 scans** over the year. Scans should be documented in a logbook and verified by a local POCUS mentor or ultrasound director.

#### Scan Categories (minimum targets recommended):

* Cardiac (50+)
* Lung/Thorax (30+)
* FAST/eFAST (40+)
* Gallbladder & Biliary (30+)
* Aorta (20+)
* Renal/Bladder (30+)
* DVT (20+)
* OB/GYN (25+)
* MSK/Soft Tissue (20+)
* Procedural guidance (vascular access, nerve blocks, etc.) (40+)

#### Supervision:

* Scans should be observed or reviewed regularly by the assigned mentor.
* Fellows are encouraged to submit selected cases for WINFOCUS faculty feedback and case rounds.

### 3. **Educational Development & Teaching**

Developing as an educator is a core goal of this fellowship.

#### Requirements:

* Create and deliver at least **2 structured lectures** (case-based, literature-informed)
* Co-teach or lead **at least 2 WINFOCUS courses or webinars**
* Organize and run **1 regional ultrasound course** with WINFOCUS support
* Submit **1 ultrasound teaching video** (e.g., image review, case explainer, lecture)
* Mentor junior learners locally (residents, students, APPs, etc.)

### 4. **Research Component**

All fellows are expected to complete **at least one academic project** during the fellowship.

#### Options:

* Original research project
* Case series or quality improvement project
* Educational or implementation science study
* Literature review or opinion article

#### Deliverables:

* Abstract submitted to a national or international meeting (e.g., WINFOCUS, SAEM, ACEP)
* OR manuscript submitted to a peer-reviewed journal
* OR presentation at a WINFOCUS annual meeting or webinar

#### Support:

* WINFOCUS will provide mentorship, templates, and optional research-focused webinars
* CITI certification or equivalent research ethics training may be required depending on study site

### 5. **Quality Assurance (QA) & Image Review**

QA is a critical part of both skill building and program leadership training.

#### Expectations:

* Review at least **250 of your own scans** with a mentor or WINFOCUS faculty
* Participate in **virtual QA case rounds** at least **once per quarter**
* Submit selected images for WINFOCUS teaching files (deidentified)
* Learn to give structured feedback to learners and colleagues

### 6. **Administration & Leadership Skills**

To prepare fellows for future roles in program direction or education leadership.

#### Topics:

* Ultrasound machine selection and maintenance
* Image archiving, labeling, and storage systems
* Teaching file development
* Billing, coding, and documentation standards
* Running a hospital-based or regional ultrasound program
* Working with institutional leadership

### 7. **Global Health & Outreach (Optional)**

Fellows are encouraged to get involved in global ultrasound education through WINFOCUS initiatives.

#### Activities:

* Participate in a remote or on-site outreach project
* Develop or translate educational materials for low-resource settings
* Work with local leaders to plan and deliver ultrasound education in underserved areas

## **Curriculum Timeline**

| **Month** | **Activities** |
| --- | --- |
| 1 | Orientation, start logbook, begin online modules, first mentor meeting |
| 2–3 | Scanning (supervised), attend webinars, prepare first lecture |
| 4 | Deliver first lecture, plan regional course |
| 5–6 | Research planning, mid-year check-in |
| 7–8 | Co-teach WINFOCUS events, submit teaching video |
| 9 | Present research draft or case report |
| 10–11 | Final scans, QA reviews, teaching evaluation |
| 12 | Final assessment, graduation prep, FAWEUS designation |

## **Completion Criteria**

To successfully graduate, fellows must:

* Log 500+ verified scans
* Teach in at least two events (plus one regional course)
* Submit a research project or abstract
* Complete online core modules and quizzes
* Participate in QA and feedback sessions
* Pass a final review and virtual exam
* Receive sign-off from local and WINFOCUS mentors

Upon completion, fellows receive:

* **WINFOCUS Advanced Fellowship Certificate**
* **FAWUS Designation (Fellow in Advanced WINFOCUS Ultrasound)**
* Inclusion in WINFOCUS Alumni and Educator Network

# **Advanced WINFOCUS Ultrasound Fellowship**

## **Curriculum Document** **Program Length:** 12 Months | **Format:** International | **Mode:** Primarily Virtual with Local Clinical Supervision

## **Curriculum Objectives**

By the end of the fellowship, participants will be able to:

1. Perform and interpret POCUS exams across a wide range of clinical applications with high competency.
2. Teach ultrasound in virtual and live settings using adult learning strategies and best practices.
3. Design and implement ultrasound educational programs and regional workshops.
4. Participate in or lead academic ultrasound research projects.
5. Contribute to global ultrasound outreach through WINFOCUS initiatives.
6. Demonstrate leadership and administrative skills relevant to ultrasound program management.

**Curriculum Schedule Overview**

| **Quarter** | **Focus Areas** | **Activities** |
| --- | --- | --- |
| Q1 (Months 1–3) | Orientation, Core Modules, Scan Log Start | Online lectures, virtual case reviews, first mentor meeting, start scanning |
| Q2 (Months 4–6) | Teaching Practice, Midpoint QA, Research Launch | First lecture, regional course planning, research proposal, scan review |
| Q3 (Months 7–9) | Advanced Scanning, Outreach, Case Presentations | Teaching video, second course, outreach project, QA feedback |
| Q4 (Months 10–12) | Research Completion, Final Assessment, Graduation | Research presentation, final logbook review, virtual exam, FAWEUS award |

## **Curriculum Components**

### 1. **Clinical Scanning**

#### Goal:

Develop clinical ultrasound competency through real-world use in the fellow’s own practice setting.

#### Requirements:

* Minimum **500 scans** during the 12 months
* Documented in the provided WINFOCUS scan logbook
* Verified by local faculty or ultrasound director

#### Suggested Breakdown:

| **Application** | **Recommended Minimum Scans** |
| --- | --- |
| Cardiac (Basic + IVC) | 50 |
| Lung & Pleura | 30 |
| eFAST / Trauma | 40 |
| Gallbladder / Biliary | 30 |
| Aorta (AAA) | 20 |
| Renal / Bladder | 30 |
| DVT | 20 |
| OB/GYN | 25 |
| MSK / Soft Tissue | 20 |
| Procedural Guidance | 40 |
| Other (Global health, Peds) | As available |

**Note:** Local variations and specialties are considered. Fellows may adjust based on practice setting.

### 2. **Core Didactic Modules**

#### Delivery:

Virtual, asynchronous content with periodic live sessions, quizzes, and readings.

#### Modules Include:

* **Ultrasound Physics & Instrumentation**
* **Image Optimization & Artifact Recognition**
* **Abdominal Ultrasound** (RUQ, GB, AAA, kidneys, bladder)
* **Cardiac & Hemodynamic Assessment**
* **Trauma Ultrasound (eFAST)**
* **OB/GYN Ultrasound**
* **Lung & Pleura**
* **DVT & Vascular Assessment**
* **Ultrasound-Guided Procedures**
* **Pediatric Applications**
* **MSK & Soft Tissue**
* **Global Health POCUS**
* **Education Theory for POCUS**
* **Ultrasound Program Administration**

### 3. **Teaching & Educational Development**

#### Requirements:

* **2 lectures** delivered virtually or in person
* **1 regional ultrasound course** planned and directed by the fellow (with WINFOCUS support)
* **1 teaching video or digital learning asset** submitted
* Co-teach or assist in **2 WINFOCUS webinars/courses**

#### Goals:

* Gain experience in small-group teaching, lecturing, and virtual facilitation
* Learn how to plan, assess, and deliver ultrasound education in various formats
* Build a portfolio of teaching materials

### 4. **Research & Scholarship**

#### Requirements:

* **1 project**: original research, case series, review article, or QI study
* **Presentation** at a national or international conference (virtual acceptable)
* **Optional submission** to peer-reviewed journal

#### Timeline:

* Proposal by Month 4
* Data collection or manuscript drafting by Month 7
* Submission or presentation by Month 11–12

#### Support:

* WINFOCUS research mentors available
* Templates and guidance provided for IRB, CITI training (if needed)

### 5. **Quality Assurance & Feedback**

#### Components:

* Participate in at least **4 virtual QA sessions**
* Submit **at least 250 scans for feedback**
* Discuss selected cases with mentors
* Use structured image review tools provided by WINFOCUS

### 6. **Global Health & Outreach (Optional)**

#### Opportunities:

* Apply to join WINFOCUS outreach events or partner programs
* Assist in creating translated/localized POCUS teaching tools
* Engage with providers in underserved settings via virtual sessions or visits

### 7. **Leadership & Administration Training**

#### Topics:

* Setting up an ultrasound program
* Creating credentialing and training pathways
* Machine selection and maintenance
* Image storage, QA systems, documentation
* Course design and event planning

## ✅ **Completion Requirements**

| **Category** | **Requirement** |
| --- | --- |
| Scanning | 500+ total scans, verified and logged |
| Teaching | 2 lectures + 1 regional course + 1 teaching video |
| WINFOCUS Involvement | Active participation in at least 2 events/webinars |
| Research | 1 completed project, presented or submitted |
| QA & Feedback | 250 reviewed scans + participation in 4 QA sessions |
| Online Curriculum | Completion of all core didactic modules and assessments |
| Final Assessment | Virtual exam + mentor sign-off |

## **Graduation & Recognition**

Upon successful completion, fellows will receive:

* **Certificate of Completion**
* **FAWUS Designation** (Fellow in Advanced WINFOCUS Ultrasound)
* Invitation to present during WINFOCUS Annual Meeting
* Recognition on WINFOCUS website and educator network

## **Section: Evaluation & Progress Tracking**

**Program:** Advanced WINFOCUS Clinical Ultrasound Fellowship  
**Duration:** 12 Months | **Mode:** Primarily Virtual + Local Practice

### ✅ **Evaluation Overview**

Fellow performance is reviewed on an **ongoing, structured basis**, focusing on:

| **Area** | **How It’s Evaluated** |
| --- | --- |
| Clinical Skills | Scan logbook + image quality review by local mentor |
| Teaching & Education | Feedback from course co-facilitators, participant surveys |
| Didactic Completion | Quizzes, reflections, and completion status of online modules |
| Research | Proposal submission, mentor check-ins, and final output |
| QA & Case Review | Participation in peer review sessions and submitted cases |
| Professionalism | Timely communication, commitment to deadlines, engagement |

### 📋 **Evaluation Tools Used**

* Digital scan logbook (Excel or online tracker)
* Faculty feedback forms (local + WINFOCUS mentors)
* Teaching evaluation rubrics
* Project milestone templates
* Online course quizzes and completion tracking
* End-of-program virtual exam (multiple choice + case-based questions)

### 🗓 **Formal Checkpoints**

| **Timing** | **Check-In Type** | **Led By** |
| --- | --- | --- |
| Month 1 | Orientation & baseline assessment | Program Director / Local Mentor |
| Month 4 | Teaching + research progress check | WINFOCUS Education Lead |
| Month 6 | Mid-Year Review (scanning, QA, modules) | Local Mentor + WINFOCUS |
| Month 9 | Research/teaching product check-in | Research Lead + Admin |
| Month 12 | Final Review + Graduation Approval | Program Director + QA Faculty |

### 🏅 **Graduation Criteria**

Fellows must meet the following to graduate:

* ✅ 500+ scans completed and signed off
* ✅ Completion of core modules and quizzes
* ✅ At least 1 original lecture, 1 regional course, 1 video
* ✅ One research or QI project submitted or presented
* ✅ Satisfactory mentor reviews and professionalism
* ✅ Passing score on final online exam
* ✅ Active participation in QA/case reviews

## 📆 **Month-by-Month Curriculum Guide**

### 🟩 **Month 1 – Orientation & Foundations**

* Fellowship onboarding
* Setup scan logbook, teaching tracker, research template
* Meet local + WINFOCUS mentors

**Core Topics:**

* Introduction to POCUS & WINFOCUS goals
* Knobology and Machine Basics
* Basic Ultrasound Physics
* Understanding Image Artifacts
* Documentation & Clinical Integration

### 🟦 **Month 2 – Trauma, FAST & Lung Ultrasound**

**Core Topics:**

* eFAST (trauma protocol)
* Lung ultrasound (A/B lines, pleural effusion, pneumothorax)
* M-mode and Lung Sliding

**Activities:**

* Submit first 30 scans
* Begin teaching preparation
* Attend QA case review session

### 🟨 **Month 3 – Cardiac and IVC**

**Core Topics:**

* Cardiac windows: Parasternal, Apical, Subxiphoid
* Global function assessment
* IVC measurement and fluid assessment
* Shock protocols (RUSH)

**Activities:**

* 1st Lecture topic confirmed
* Mentor scan review
* Attend at least one WINFOCUS webinar

### 🟧 **Month 4 – Abdomen & Renal**

**Core Topics:**

* Gallbladder & Biliary Tree
* Abdominal Aorta (AAA)
* Renal & Bladder
* Hydronephrosis vs. cysts vs. masses

**Activities:**

* Deliver 1st lecture
* Submit research/project idea
* Attend mid-year check-in with mentor

### 🟪 **Month 5 – OB/GYN & DVT**

**Core Topics:**

* Transabdominal & Transvaginal Ultrasound
* Intrauterine vs. Ectopic Pregnancy
* DVT (2-point and full leg compression)
* Vein vs. artery techniques

**Activities:**

* Scan log updated to 200+ scans
* Submit 2–3 cases for QA review
* Plan for teaching video recording

### 🟥 **Month 6 – Procedures & Nerve Blocks**

**Core Topics:**

* Vascular Access (Central & Peripheral)
* Nerve Block Basics (Femoral, Interscalene, Fascia Iliaca)
* Paracentesis and Thoracentesis
* Foreign body detection

**Activities:**

* Midpoint review with program lead
* 2nd Lecture prep
* Teaching video submitted

### 🟩 **Month 7 – MSK & Soft Tissue**

**Core Topics:**

* Abscess vs. Cellulitis
* Joint Effusions
* Muscle and Tendon Scanning
* Foreign body localization

**Activities:**

* Begin organizing regional ultrasound course
* Peer review of fellow’s teaching video
* Research progress report due

### 🟦 **Month 8 – Education & Feedback**

**Core Topics:**

* Adult Learning Theory for POCUS
* Giving Constructive Feedback
* Simulation and Skill Stations
* Lecture Design Strategies

**Activities:**

* Co-teach WINFOCUS event
* Attend QA session
* Update scan log to 350+

### 🟨 **Month 9 – Program Management**

**Core Topics:**

* Ultrasound program administration
* Credentialing and policy writing
* Image review systems
* Budgeting, equipment selection

**Activities:**

* Submit regional course report
* Attend outreach info session (optional)
* Research draft due

### 🟧 **Month 10 – Pediatric & Global Health POCUS**

**Core Topics:**

* Pediatric lung, cardiac, and abdominal ultrasound
* Adapting POCUS for resource-limited settings
* Cross-cultural education in ultrasound
* Translation and localization of content

**Activities:**

* Attend WINFOCUS outreach workshop
* Case review submission for group discussion

### 🟪 **Month 11 – Final Projects & Presentation**

**Core Topics:**

* Final case preparation
* Research presentation skills
* Abstract writing tips
* Final QA deep dive

**Activities:**

* Research project presented or submitted
* Complete scan log (500+)
* Prep for final online exam

### 🟥 **Month 12 – Review & Graduation**

**Core Topics:**

* Wrap-up discussions
* Peer reflections and fellow feedback
* Career planning and next steps

**Activities:**

* Final mentor sign-off
* Online exam
* Graduation + FAWEUS ceremony (virtual or at annual meeting)

Curriculum

# 📘 **Advanced WINFOCUS Clinical Ultrasound Fellowship**

**Curriculum Handbook (2025–2026)**  
**Program Format: 12 Months | Primarily Virtual | International Track**

## **Background & Program Overview**

The Advanced WINFOCUS Clinical Ultrasound Fellowship is designed for international physicians and advanced practice providers (APPs) who already use point-of-care ultrasound (POCUS) and want to grow as educators, researchers, and leaders in ultrasound.

This program responds to a growing global need for formal, structured, and accessible ultrasound education — especially in low-resource or underserved regions. WINFOCUS brings together a global network of ultrasound leaders to support this goal.

## **Table of Contents**

1. Background & Overview
2. Program Goals
3. Curriculum Summary
4. Month-by-Month Plan
5. Evaluation & Graduation
6. Scan Log Overview (Appendix)
7. Teaching & Research Tracker (Appendix)

## **Program Goals**

By the end of the fellowship, participants will be able to:

* Perform and interpret a wide range of POCUS exams
* Design and deliver high-quality ultrasound education
* Contribute to ultrasound research and scholarship
* Support ultrasound program development locally or regionally
* Collaborate with WINFOCUS in teaching and global health outreach

## **Curriculum Summary**

The fellowship is structured around **6 core pillars**:

| **Area** | **Description** |
| --- | --- |
| Clinical Scanning | 500+ scans documented and mentored locally |
| Online Curriculum | Modules on ultrasound physics, scanning, teaching, program admin |
| Teaching Practice | 2 lectures, 1 video, 1 regional course, co-teaching WINFOCUS events |
| Research Component | 1 research project or review, presented or submitted for publication |
| QA & Image Review | Peer-reviewed scans, quarterly case discussions |
| Program Engagement | Attend WINFOCUS webinars, workshops, contribute to global outreach efforts |

## **Month-by-Month Curriculum**

### 🟩 **Month 1 – Orientation**

* Fellowship onboarding
* Meet local and WINFOCUS mentors
* Start scan log, research planner

**Topics:**

* Knobology and ultrasound physics
* Artifact recognition
* Image optimization
* Clinical documentation & workflow

### 🟦 **Month 2 – FAST, Lung**

* eFAST and trauma protocols
* Pneumothorax, pleural effusion, lung sliding
* M-mode and line placement

**Deliverables:**

* Submit first 30 scans
* Begin lecture planning

### 🟨 **Month 3 – Cardiac & IVC**

* Basic cardiac windows (parasternal, apical, subxiphoid)
* IVC and shock assessment (RUSH protocol)

**Activities:**

* Confirm first lecture topic
* Attend first QA session

### 🟧 **Month 4 – Abdominal & Renal**

* RUQ and gallbladder
* Aorta (AAA screening)
* Renal and bladder ultrasound

**Deliverables:**

* Deliver first lecture
* Submit research project idea
* Update scan log (100+)

### 🟪 **Month 5 – OB/GYN, DVT**

* Early pregnancy, transabdominal scanning
* DVT (2-point compression)
* Pelvic scanning basics

### 🟥 **Month 6 – Procedures, Nerve Blocks**

* Vascular access
* Thoracentesis, paracentesis
* Intro to regional nerve blocks

**Deliverables:**

* Submit teaching video
* Complete 200+ scans
* Mid-year review

### 🟩 **Month 7 – MSK, Soft Tissue**

* Cellulitis vs. abscess
* Joint effusions
* Foreign bodies

**Activity:**

* Begin planning regional ultrasound course

### 🟦 **Month 8 – Teaching Strategies**

* Adult learning principles
* Lecture design
* Giving feedback
* Teaching in low-resource settings

**Deliverables:**

* Attend and co-teach WINFOCUS course or webinar

### 🟨 **Month 9 – Program Admin**

* Credentialing, QA systems
* Course management
* Equipment selection

**Deliverables:**

* Submit regional course report
* Research draft due

### 🟧 **Month 10 – Peds & Global Health**

* Pediatric protocols
* Adapting POCUS to resource-limited settings
* Cross-cultural teaching methods

### 🟪 **Month 11 – Final Presentations**

* Research presentation prep
* Final case reviews
* Update teaching portfolio

### 🟥 **Month 12 – Graduation**

* Final online exam
* Mentor sign-off
* FAWEUS designation awarded

## **Evaluation & Graduation Criteria**

| **Area** | **Minimum Requirement** |
| --- | --- |
| Scanning | 500+ scans with logbook, verified by mentor |
| Teaching | 2 lectures, 1 course organized, 1 video |
| Research | 1 project presented or submitted |
| Online Curriculum | Completion of all modules + quizzes |
| QA Participation | 250 reviewed scans, 4 QA sessions attended |
| Final Exam | Passing grade on case-based virtual test |
| Professional Conduct | Consistent engagement and mentor feedback |

## **Appendix A: Scan Log Summary Template**

| **Scan Type** | **Target Count** | **Completed** | **Verified by (Mentor)** |
| --- | --- | --- | --- |
| Cardiac | 50 |  |  |
| Lung | 30 |  |  |
| FAST | 40 |  |  |
| Gallbladder | 30 |  |  |
| Aorta | 20 |  |  |
| Renal | 30 |  |  |
| DVT | 20 |  |  |
| OB/GYN | 25 |  |  |
| MSK/Soft Tissue | 20 |  |  |
| Procedures | 40 |  |  |
| **Total** | **500+** |  |  |

## **Appendix B: Teaching & Research Tracker**

| **Activity** | **Completed** | **Notes** |
| --- | --- | --- |
| Lecture #1 |  |  |
| Lecture #2 |  |  |
| Regional Course |  | Date + Number of Learners |
| Teaching Video Submitted |  | Topic |
| Research Project Submitted |  | Title + Abstract/Link if applicable |
| WINFOCUS Webinar Participation |  | Date(s) |

Let me know if you want this formatted for print or with your WINFOCUS branding added. I can also drop it into Google Docs or turn it into a PDF for easy sharing.