



India



## AI-powered insights for enhanced Analysis

FD+ is an innovative, AI-powered solution designed exclusively for Doctors to enhance Patient treatment by providing deeper insights into Skeletal patterns through Advanced Posture and Gait Analysis.



**"Precision in Motion, Wellness in  
Focus. Unlocking the Science of  
Movement with FD+"**



# Doctors Pain Points



## Communication Barriers

**Limited Patient Understanding:** Patients may have difficulty explaining their pain or symptoms accurately. **Inconsistent Descriptions by Patients** often provide vague descriptions of their pain.

## Complex Pain Patterns

**Chronic Pain Conditions:** Conditions like chronic back pain, fibromyalgia, or arthritis have complex causes, making diagnosis and treatment challenging.



## Subjective Nature of Pain

**Pain is Subjective:** Pain is a personal experience, and different patients have different tolerances and thresholds, making it difficult for Doctors to assess the severity or source of pain.

## Variability in Patient Responses

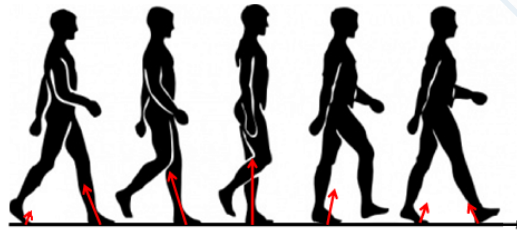
**Individual Response to Treatment:** Every patient responds differently to treatment, and Doctors often need to modify plans or experiment with different techniques.



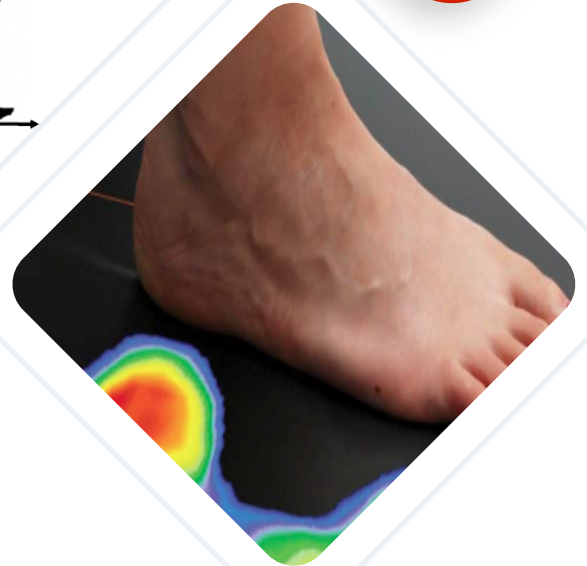
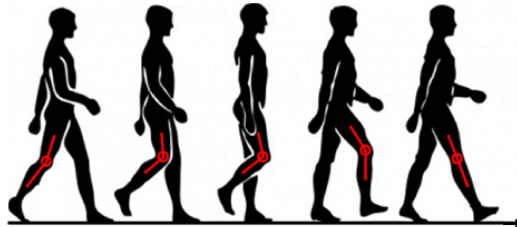
## Access to Patient History

**Incomplete Medical History:** Doctors may not always have access to a complete medical history, which is vital for understanding the patient's underlying conditions and previous treatments.

KINETICS



KINEMATICS



## FD+ for Doctors

- Doctor-Friendly Design: Simplified interface for every user.
- Postural Analyses: Evaluates body alignment and symmetry.
- Gait Analysis: Assesses walking and running phases.
- Pressure Plate Analysis: Analyzes foot pressure distribution.
- Comprehensive Reports: Clear reports for doctors and patients.
- Customizable Recommendation Engine: Easily update treatment guidelines.

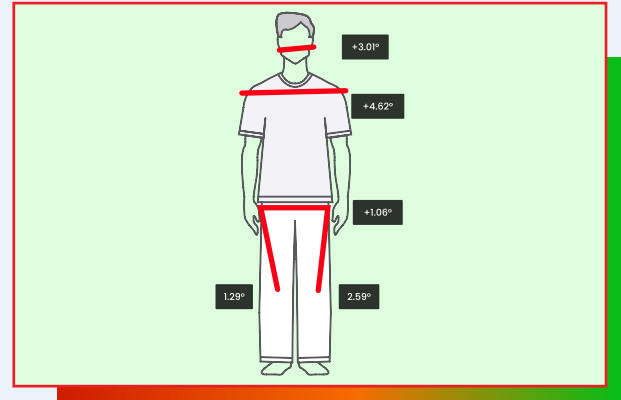


# FD+ Key Features

## 1. Comprehensive Analysis Tools

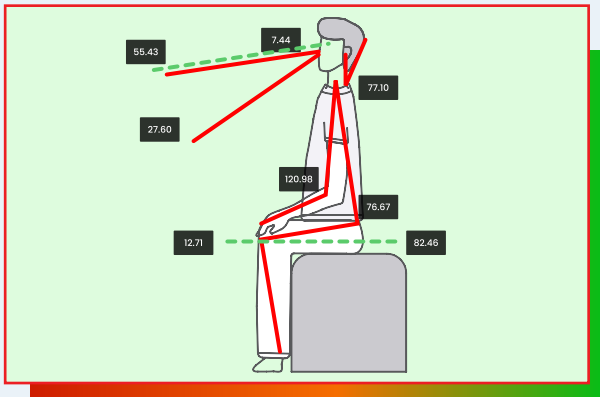
### Standing Posture Analysis

Evaluates the patient's standing posture from multiple angles (anterior, posterior, and lateral views) to identify misalignments or abnormalities.



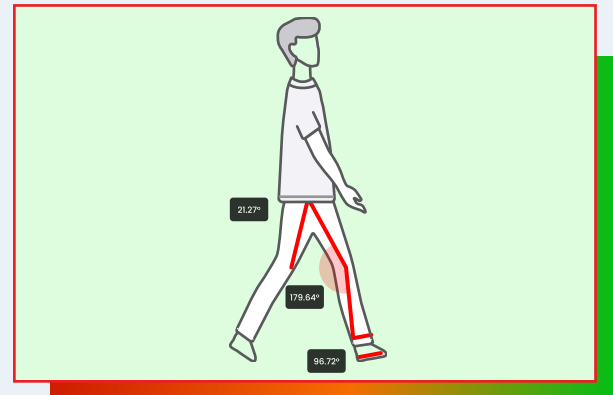
### Sitting Posture Analysis

Analyses seated posture to assess spinal alignment and body symmetry, ensuring that all aspects of patient posture are monitored.



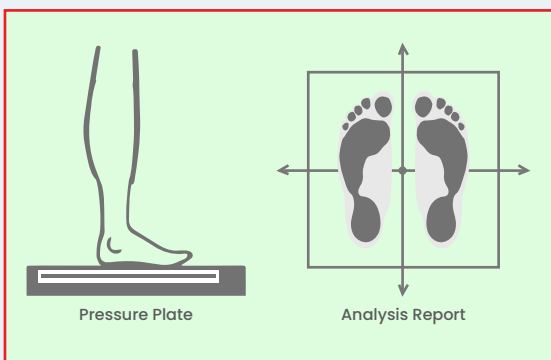
### Gait Analysis

Monitors the patient's walking and running pattern, identifying issues such as abnormal gait or balance, and highlights specific areas needing attention. FD+ tracks the key metrics for all gait phases.



### Pressure Plate Analysis

The system maps pressure points and pressure distribution across the foot, measures ground reaction forces exerted on the feet, and assesses changes in pressure during movement. It helps design custom orthotics to address foot abnormalities, using pressure precise analysis.





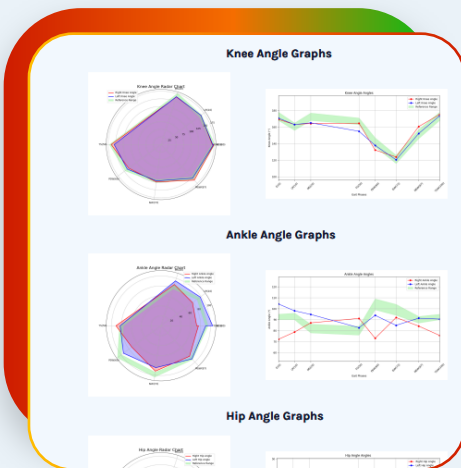
## 2. Knowledge Base

Customizable knowledge base for adding or updating symptoms, treatments, and exercises, ensuring that the personalized recommendations are always up to date.

## 3. AI-Based Marker-Less Analysis

Analyzes patient movement and posture without the need for physical markers, providing accurate assessments and personalized insights for treatment planning.

- Evaluates kinetic parameters including forces, moments, and pressure distribution to understand the impact on the body during motion.
- Examines kinematic parameters such as step length, stride length, and gait velocity to assess movement efficiency.
- Monitors phase-related data like single support, double support, stance percentage, and swing percentage for a complete gait cycle overview.
- Provides a comprehensive analysis by combining all relevant temporal, kinetic, and kinematic parameters to deliver accurate movement assessments.



## 4. Comprehensive Reports

Generates detailed, patient-friendly reports that provide clear insights into patient posture, diagnosis, and progress over time, helping doctors explain conditions and treatment steps effectively.

## 5. Doctor-friendly Interface

Designed for seamless workflow, enabling faster decision-making and improving patient care efficiency with easy-to-use tools and interfaces.



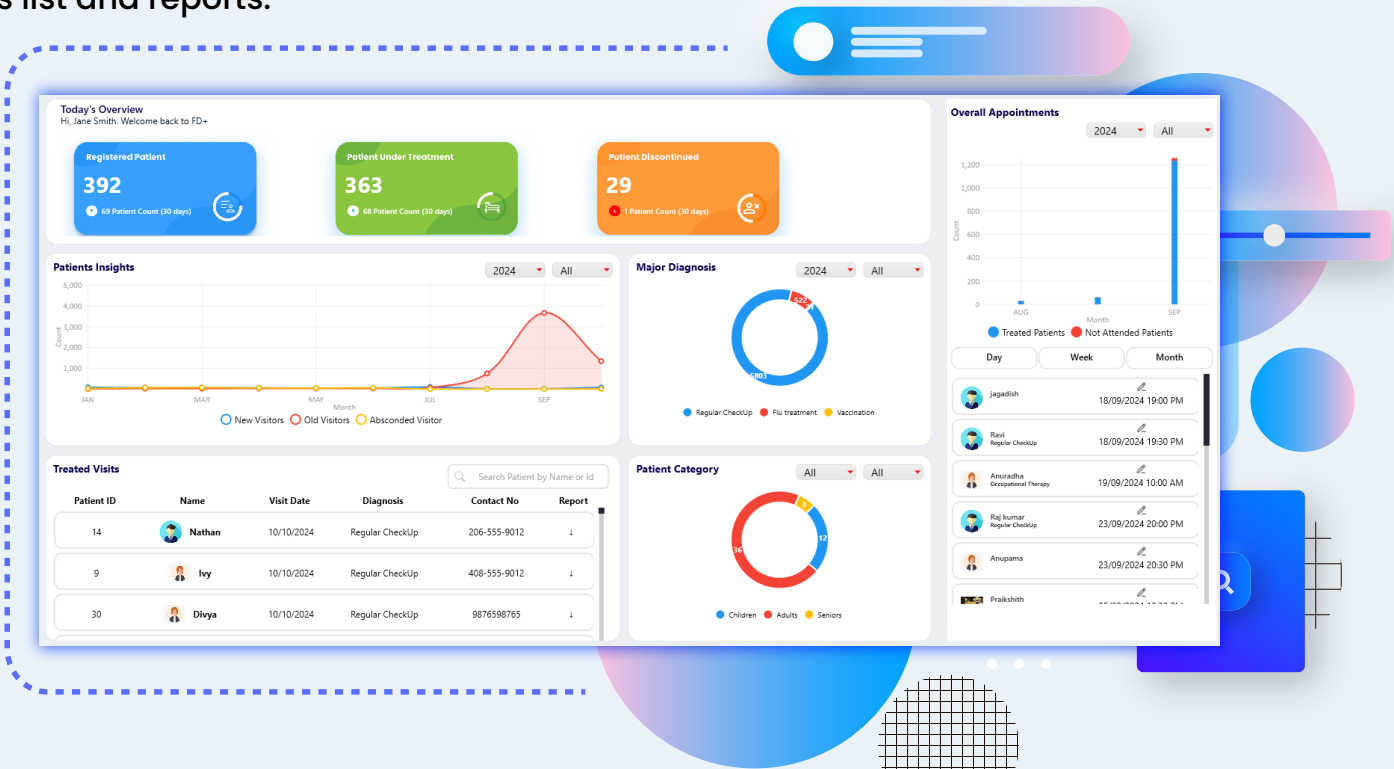


# FD+ Overview

## 1. Insight and Benefits to Doctors

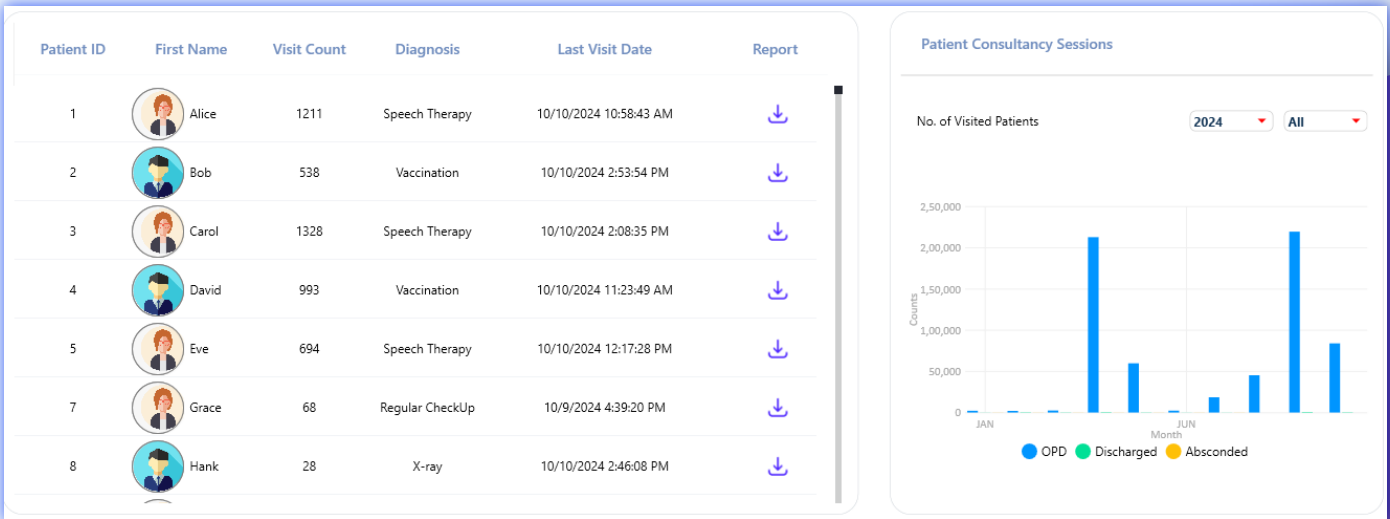
### Doctor Dashboard

Overview of patient appointments and their Diagnosis and relevant information for the Doctors visits. Access to patients statistics and todays appointments and future appointments list and doctor's patients category and symptoms and the recently treated patients list and reports.



### Patient Record Management

View detailed patient records, including visit history, diagnosis details, and reports analysis. Doctors can conduct standing, sitting, and gait analysis, capturing images from different views (anterior, posterior, lateral) of the patient.



# Prescription & Reports

Create treatment plans, exercises and medications, based on analysis results. Generate detailed reports for patients, based on their Posture/Gait/Pressure Plate Analysis.

Right Lateral View

Parameter	Ref Value	Pre-Assessment	Post-Assessment
Viewing Distance	>50cm	67.04	67.04
Viewing Angle	0° to (+) 30°	10.14° to 21.62°	10.14° to 21.62°
Forwarded Head Angle	<40°	150.64°	150.64°

Recommended Prescription

S.no	Medicine	Dosage
1	Naproxen	3
2	Celecoxib	2

Recommended Exercise

S.no	Exercise	Intensity/Reps
1	Shoulder Shrugs	To strengthen shoulder
2	Shoulder Blade	To improve scapular

## Profile Management

Doctors can update their personal profiles and securely change their login credentials.

Edit Profile

First Name \*

Jane

Last Name \*

Smith

Date of Birth \*

22-03-1982

Gender \*

Male

Role \*

Orthopedics

Email \*

jane.smith@example.com

Phone Number \*

9876542100

Address \*

456 Elm St

City \*

udaipur

State \*

Rajasthan

Country \*

India

Postal Code \*

789001

Description

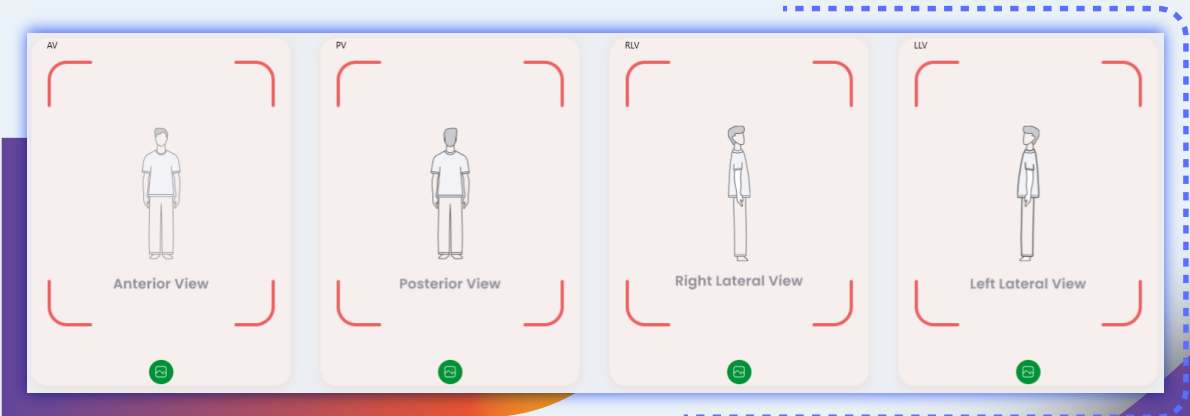
0/500

Save

## 2. Patient Analyses

### Standing Posture Analysis

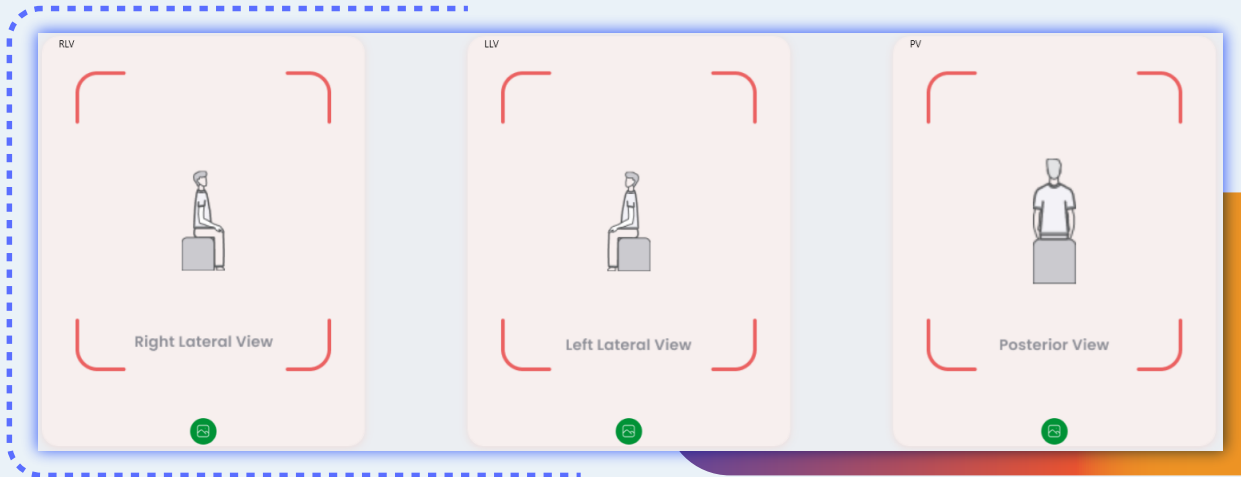
Standing posture analysis evaluates the alignment of the body in an upright position, focusing on key areas such as the head, neck, shoulders, spine, pelvis, hips, knees, and ankles. This analysis helps identify postural imbalances and alignment issues, providing essential insights for diagnosis and treatment. The images are uploaded or captured live for analysis.





## Sitting Posture Analysis

Sitting posture analysis assesses how an individual sits, focusing on spinal alignment, pelvic position, and weight distribution. It helps identify imbalances and ergonomic issues that could affect posture and overall comfort while seated. Also right and left lateral views are used to assess symmetry and spinal alignment. The Images are uploaded or captured live for analysis.

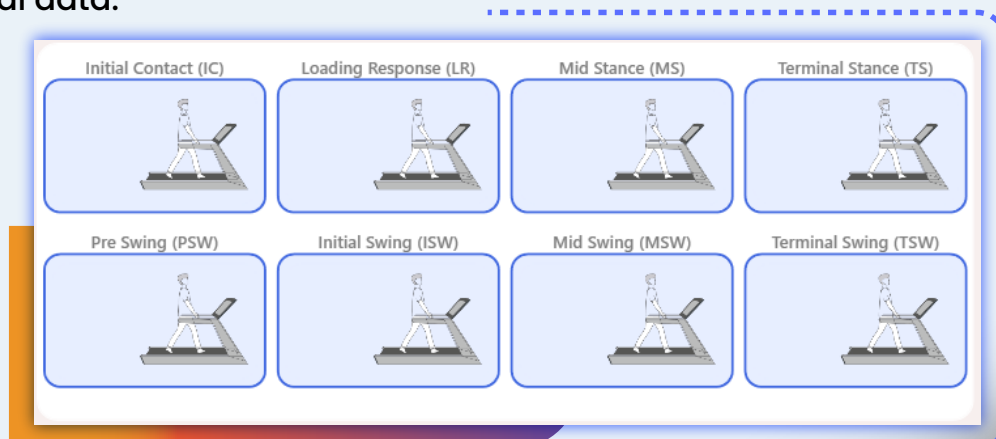


## 3. Gait Analysis

Gait analysis studies walking patterns, evaluating body movements, mechanics, and muscle activity. FD+ performs Kinematic and Temporal data analysis, calculating key joint angles and assessing the mean and variance of stances and swings across multiple gait cycles. This helps in diagnosing conditions, planning treatments, and tracking intervention effectiveness.

### Walking Analysis

- **Lateral View:** Measures joint angles (hip, knee, ankle) during each gait phase, providing critical insights into gait abnormalities like drop foot, stiff knee, and crouch gait. The lateral view captures temporal-spatial parameters essential for diagnosing and treating movement issues.
- **Stance Phase:** Initial contact (heel strike), loading response (foot flat), midstance, terminal stance (heel off), pre-swing (toe off).
- **Swing Phase:** Initial swing (acceleration), mid-swing, terminal swing (deceleration).
- Identifies issues like stiff knee gait, drop foot, and pelvic drop using advanced kinematic and temporal data.



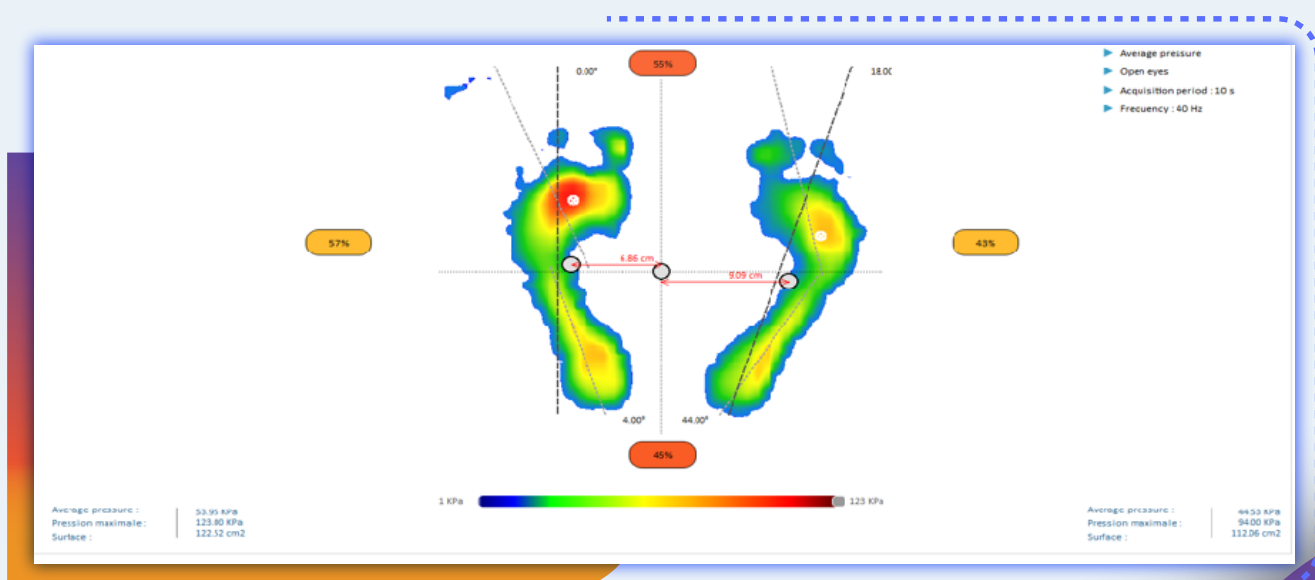
## Running Analysis

- Running analysis examines faster, more dynamic movements, focusing on joint angles, speed, and ground contact time. It highlights abnormalities such as overstriding, stiff knee, and pelvic drop. The analysis includes both the stance (contact, propulsion) and swing (float) phases, with an emphasis on efficiency and injury prevention.
- Lateral View: Key for detecting excessive knee flexion or hip extension deficits.
- Anterior/Posterior View: Ideal for identifying imbalances, pelvic drop, and misalignment during the midstance phase, which is crucial for assessing stability and preventing injuries.



## 4. Pressure Plate Analysis

- Static Analysis: Measures foot pressure, centre of gravity, balance, and stabilometry.
- Dynamic Analysis: Tracks gait line, pressure distribution, support duration, and force during movement.
- Pressure Mapping: Analyses heel, midfoot, and forefoot pressure.
- Balance Insights: Evaluates stability with eyes open/closed to assess visual and sensory effects.

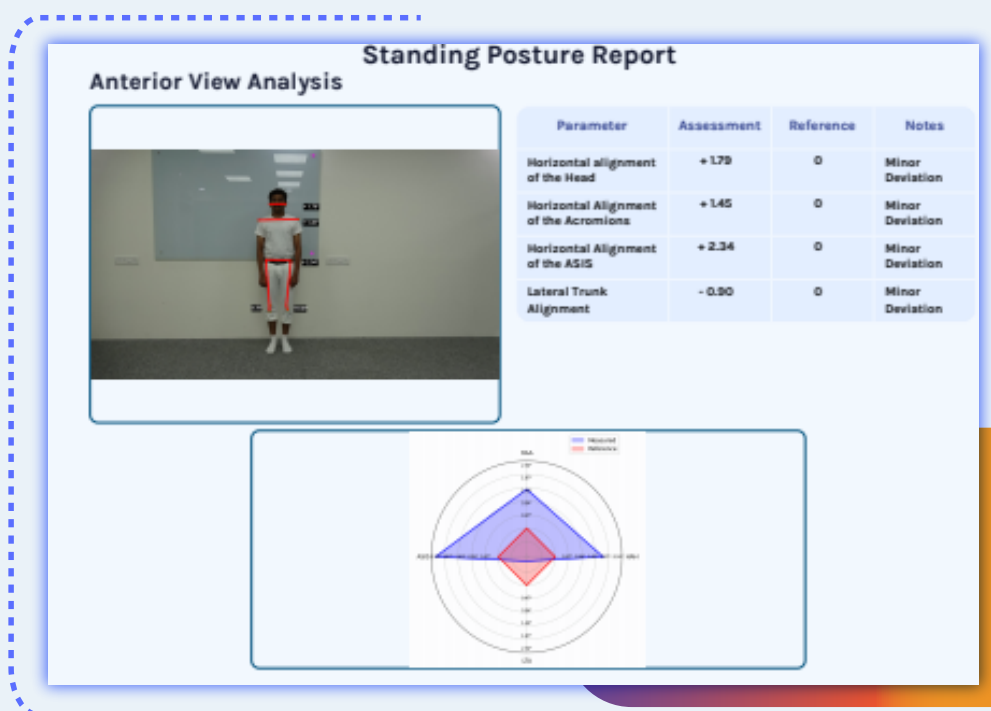




## 5. Report Generation

### Combined Report Generation

- Combines all the individual analysis reports into a single file report for the patient.
- The report includes patient history, diagnosis, and prescribed treatments.



## 6. Prescription & Consultation

### Tailored Prescriptions

- Based on the analysis, FD+ recommends personalized exercises and medications.
- Doctors can add custom comments and make final prescriptions and exercises.

#### Recommended Prescriptions

SL.No	Medicines	Dosage
1	Naproxen	3
2	Analgesics	1
3	Capsaicin	1
4	Cortisone	3
5	Duloxetine	3
6	Pregabalin	2

#### Recommended Exercises

SL.No	Exercises	Intensity/Reps
1	Shoulder Shrugs	To strengthen shoulder muscles
2	Shoulder Blade Squeezes	To improve scapular retraction.
3	Wall Angels	To enhance shoulder mobility.
4	Chest Stretch	To stretch the pectoral muscles.
5	Thoracic Extension	To improve upper back mobility
6	Plank	To strengthen

# Post-Consultation Management

- Doctors can update patient’s recovery percentage, discharge status, and schedule follow-up appointments.

## 7. Knowledge Base Management

- Experts can update and manage the knowledge base for normative data, symptoms, exercises, and medications.
- Tailor recommendations based on evolving clinical insights and best practices, ensuring personalized treatments for patients.



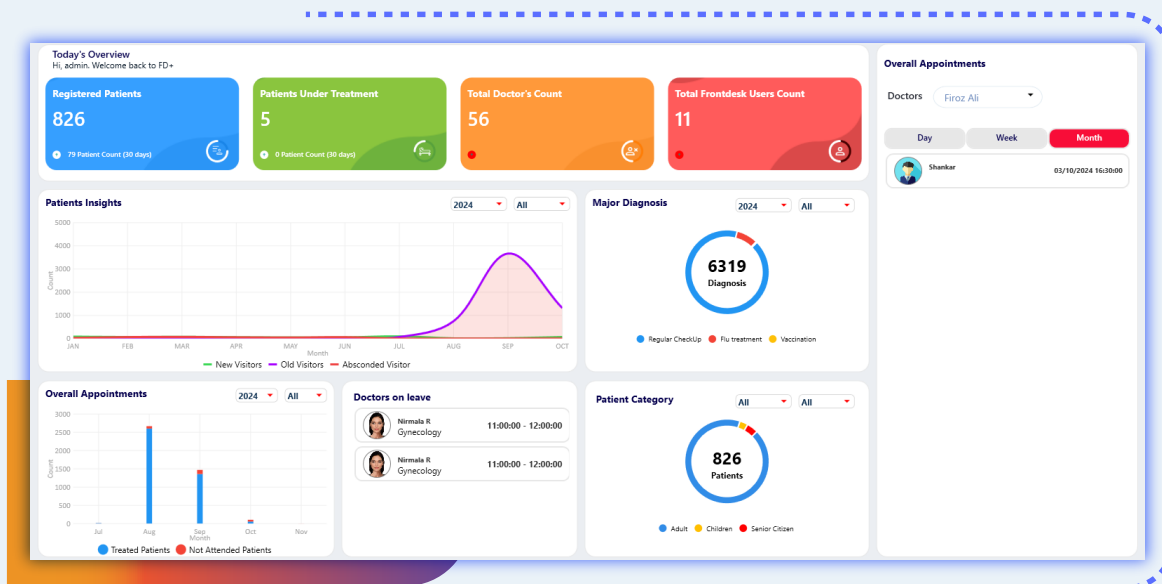
## 8. Insight and Benefits to Administrators

### Admin Dashboard

- Provides an overview of patient registrations, treatments, and overall appointments.
- Data Insight Cards: Visual charts for patient insights, major diagnoses, patient categories, and doctor availability.

### Patient Management

- View and manage registered patients, patients under treatment, and discontinued patients.
- Use date-range filters to analyse patient data and track progress over time.






























## User Management

- Add, edit, and delete profiles for doctors, front desk users, and other roles.
- Manage user access and role-based permissions across the system.

## Profile & Security

- Admin can update their profile, manage account settings, and change passwords of Doctors and Front Desk users securely.

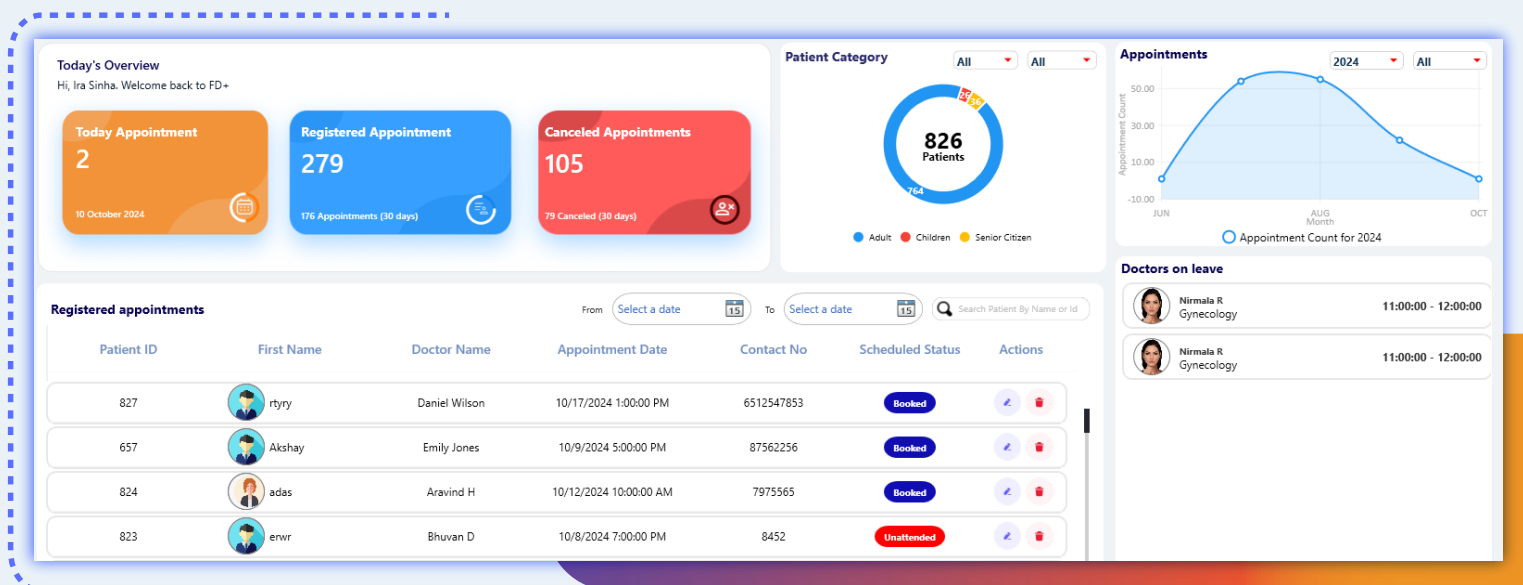
Doctor ID	UserName	Speciality	Expert	Admin	Email	Phone	Actions
1	 Emily Jones	Cardiology	<input type="checkbox"/>	<input checked="" type="checkbox"/>	emilyjones1@example.com	8834567890	 
2	 Jane Smith	Orthopedics	<input type="checkbox"/>	<input type="checkbox"/>	jane.smith@example.com	9876542100	 
3	 Emily Jones	General Surgery	<input checked="" type="checkbox"/>	<input type="checkbox"/>	emilyjones@example.com	555123567	 
4	 Michael Brown	Orthopedics	<input type="checkbox"/>	<input type="checkbox"/>	michael.brown@example.com	4445678901	 
8	 Robert Martinez	Cardiology	<input type="checkbox"/>	<input type="checkbox"/>	robert.martinez@example.com	9990123456	 
10	 James Lopez	Cardiology	<input type="checkbox"/>	<input type="checkbox"/>	james.lopez@example.com	7772345678	 
13	 Expert Test	Neurology	<input checked="" type="checkbox"/>	<input type="checkbox"/>	expert@gmail.com	3336789012	 
215	 Mega Rai	Pediatrics	<input type="checkbox"/>	<input checked="" type="checkbox"/>	mega@gmail.com	9988000456	 
217	 Pushpa Raj	Pediatrics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	pushpa@gmail.com	8877000886	 

## 9. Insight and Benefits to Front Desk User

### Front Desk Dashboard

- Manage daily, registered, and cancelled appointments through a unified interface.
- Appointment Insights: View detailed appointment data, including patient ID, doctor name, appointment time, and status.





## Doctor Leave Management

- Add, edit, and delete doctor leave records.
- Track doctor availability and schedule appointments based on their leave.

## Profile & Security

- Front desk users can manage their profiles, update passwords, and securely handle patient appointments and records.

## Appointment Handling

- Book, edit, reschedule and delete patient appointments.
- Use the search functionality to find specific patients or appointments quickly.

## 10. System Requirements

OS	Windows 10 (64 bit), Windows 11 (64 bit)
CPU	12th Gen Intel(R) Core(TM) i9-12900K 3.20 GHz
RAM	16 GB or more recommended
HDD Recommended Free Space	10 GB*
GPU	GB or more recommended
Required Display Resolution	1024 × 768 or higher

# Interested in a Demo?

Contact us today to schedule a free demo of FD+ and revolutionize your analysis practice.



## Contact Information:

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