

# Patient Wait List Dashboard

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**Tool:** Microsoft Power BI

**Dataset Source:** Wait List CSV Files (2018–2021)

## Overview

This Power BI dashboard provides a comprehensive visualization of **patient wait list data** across multiple years, allowing healthcare administrators and analysts to monitor trends, analyze specialties, and optimize resource allocation.

The dashboard is divided into two main sections:

1. **Summary View** – High-level KPIs and visual insights.
2. **Detailed View** – Tabular and filter-based data exploration.

## Data Model

### Tables:

#### 1. All\_Data

##### a. Columns:

- i. Source.Name: Name of source CSV file (e.g., Op\_WL\_2020.csv)
- ii. Archive\_Date: Reporting date (month-end snapshot)
- iii. Specialty\_HIPE: Specialty code
- iv. Specialty\_Name: Specialty description
- v. Case\_Type: Type of case (Outpatient, Day Case, Inpatient)
- vi. Adult\_Child: Age group category (Adult / Child)
- vii. Age\_Profile: Age category (0–15, 16–64, 65+)
- viii. Time\_Bands: Wait duration grouping (0–3, 3–6, 6–9 months, etc.)
- ix. Total: Total number of patients waiting

##### x. Calculated Columns/Measures:

1. Average Wait List
2. Median Wait List
3. Latest Month Wait List

4. PY Latest Month Wait List (Previous Year)
5. Dynamic Title
6. NoDataLeft (control measure for filters)

## 2. Mapping\_Specialty

### a. Columns:

- i. Specialty: Specialty name
- ii. Specialty Group: Broader specialty classification (used for grouping charts)

## Relationship:

- **One-to-Many (1:\*)**: Mapping\_Specialty[Specialty] → All\_Data[Specialty\_Name]  
This allows specialty-based grouping and aggregation in visuals.

# Dashboard Structure

## 1. Summary View

A high-level view providing key insights into patient wait lists.

### Key Components:

- **Total Wait List Comparison (Card Visual):**  
Compares *Latest Month Wait List* vs *Previous Year Latest Month Wait List*.
- **Wait List Bifurcation (Donut Chart):**  
Distribution of patients by Case\_Type (Outpatient, Day Case, Inpatient).
- **Wait List Analysis (Bar Chart):**  
Breaks down totals by Specialty Group and Age\_Profile.
- **Top 5 Specialties (Card/Stacked Bar):**  
Displays the five specialties with the highest *Median Wait List*.
- **Monthly Trend Analysis (Line Chart):**  
Plots *Day Case*, *Inpatient*, and *Outpatient* trends over time.

### Filters / Slicers:

- Archive\_Date (slider)
- Case\_Type

- Specialty\_Name

## 2. Detailed View

This page provides an interactive data table for deep analysis.

**Components:**

- **Filter Panel:**
  - Archive\_Date (date range slider)
  - Case\_Type
  - Specialty\_Name
  - Age\_Profile
  - Time\_Bands
- **Data Table (Matrix Visual):**

Displays detailed breakdown of:

  - Archive\_Date
  - Day Case
  - Inpatient
  - Outpatient
  - Total

Users can scroll, filter, or sort across years for deeper investigation.

## Measures Used

Measure Name	Description
Latest Month Wait List	Total patient count in the most recent archive month
PY Latest Month Wait List	Total patient count from the same month in the previous year
Average Wait List	Average wait list count across selected period
Median Wait List	Median wait list value across selected period
Dynamic Title	Updates the visual title dynamically based on filters
NoDataLeft	Error handling measure for missing data

## Design & UI Notes

- **Theme:** Custom dark background (#0B1020) with gradient accent panels (magenta–purple).
- **Font Colors:** White & Cyan for readability, Pink for highlights.
- **Navigation:**
  - “Summary” → Main insights page
  - “Detailed View” → Tabular exploration
  - Back navigation button in top-right of Detailed View.
- **Tooltips:** Display additional details on hover (e.g., specialty count breakdown).