

Sildenafil – pulmonary hypertension – India (Repurposing Scan)

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Executive Summary

- Current guidelines for pulmonary hypertension provide general authoritative recommendations but no specific detailed mention of sildenafil. A PubMed search from 2020 to 2025 yielded no new publications specifically concerning sildenafil and pulmonary hypertension in this period. Recent news includes several regional analyses and comparison studies involving sildenafil for pulmonary hypertension in India and other populations, indicating ongoing clinical interest and application. The presence of news about regulatory approvals also suggests continued importance of sildenafil formulations.

Clinical Trials

Summary

- Active trials: 4
- Completed trials: 1

Phase distribution

- Observational: 0
- Phase 1: 0
- Phase 2: 0
- Phase 3: 2
- Phase 4: 1

Highlights

- No Phase III trials identified in India

Top Trials

Trial ID	Title	Phase	Status	Start Date
NCT04715113	Hemodynamic Effects of Acute Normobaric Hypoxia During Exercise in Patients With Pulmonary Hypertension: Single-center Randomized Controlled Trial	NA	Completed	2021-02-01
NCT03460470	Sildenafil in US Heart Failure Patients (SilHF-US)	Phase 3	Active	2018-02-14
NCT01616381	Sildenafil in Heart Failure (SilHF); An Investigator Initiated Multinational Randomized Controlled Clinical Trial.	Phase 3	Active	2013-03
NCT01582438	A Local, Multicentre, Open Label Access Study, To Provide Sildenafil Therapy For Subjects Who Completed A1481156 Study And Are Judged By The Investigator To Derive Clinical Benefit From Continued Treatment With Sildenafil For Subjects In India	Unknown	Active	Not available
NCT03053739	Randomized Controlled Trial to Compare the Efficacy of Combination Therapy vs Monotherapy for Pulmonary Arterial Hypertension in Systemic Sclerosis	Phase 4	Active	2016-12

Guidelines and Literature

Guidelines

- WHO Guidelines: Generic authoritative health guideline source (disease-specific guideline not mapped in MVP).

Publisher: World Health Organization
<https://www.who.int/publications/guidelines>

- NICE Guidelines: Generic authoritative guideline repository (disease-specific guidance not mapped in MVP).

Publisher: National Institute for Health and Care Excellence (NICE)
<https://www.nice.org.uk/guidance>

Publications

No publications available.

News Signals

- PULMOEAST: A Comprehensive Analysis of Pulmonary Hypertension in Eastern India - Cureus

Cureus | 2023-12-23
PULMOEAST: A Comprehensive Analysis of Pulmonary Hypertension in Eastern India - Cureus
<https://news.google.com/rss/articles/CBMitwFBVV95cUxQNUUp5RW5xSzVxUk00LXNwZ2tSZFNoUDZucUIOOG9QeVFQULU5zc19Qck-JZM1I4MFotWjVjYVRRNk9uTnJZSzBzc0VxRWdleVBFRmpkamRsdTREYnhDNVhyb0tVSk9JSzg4ejl4VXB0WEtYVVY-wZEItb1NsVmxkaEJOenVxY1BOakhXUUUvYmKxqRTB5Q0JuRjZ5alhQVmfFNVG9mWjNHM3J1XzFGSG5aTDZ1WHp5ckJYbkU?oc=5>

- Comparison of intravenous sildenafil with inhaled nitric oxide for acute vasodilator testing in pulmonary arterial hypertension - Wiley Online Library

Wiley Online Library | 2022-12-19
Comparison of intravenous sildenafil with inhaled nitric oxide for acute vasodilator testing in pulmonary arterial hypertension - Wiley Online Library
<https://news.google.com/rss/articles/CBMia0FVX3lxTE1DRGY0bE91ejl3bUR6QWwtSDhrVDBxSGFPO-EVNNnY4S2ljQm45b2ZUM0RTV1BDYmV1UWoyN2plQW9QejBueVpBZUJnbGRudVkdXV5ZTIQRGxSMzZSUHVpWHlyeF-plS0t6dDV3?oc=5>

• Evaluation and Management of Pulmonary Hypertension in Noncardiac Surgery: A Scientific Statement From the American Heart Association | Circulation - American Heart Association Journals

American Heart Association Journals | 2023-03-16

Evaluation and Management of Pulmonary Hypertension in Noncardiac Surgery: A Scientific Statement From the American Heart Association | Circulation - American Heart Association Journals

<https://news.google.com/rss/articles/CBMibEFVX3lxTFBKeFZrWmkzenNDNzIzbVNpXzFCOEdnVUJkNTNEM0N5T1VKNE-tiQ1IFUG1uNjZIMks3Q3pkMVFISnFkYmxQMFM4aEJROXVuaTMbUF3eINITnFVdjhmNkFZRzZrcF92SkZuU3dxdQ?oc=5>

• The efficacy and safety of sildenafil in Chinese patients with pulmonary arterial hypertension - Nature

Nature | 2009-07-31

The efficacy and safety of sildenafil in Chinese patients with pulmonary arterial hypertension - Nature

<https://news.google.com/rss/articles/CBMiU0FVX3lxTFAtTU1ndDNDsgVOdmZpMVZTRXI3UEZWVld3YjJZTHZIR196aEJSMXdLMn-plbzJDMko2eIRlcWJXa2NiYzd3Nms4QV93OUxfa0Vpd0Jj?oc=5>

• Granules India subsidiary bags USFDA nod for Sildenafil for Oral Suspension - Medical Dialogues

Medical Dialogues | 2023-12-04

Granules India subsidiary bags USFDA nod for Sildenafil for Oral Suspension - Medical Dialogues

<https://news.google.com/rss/articles/CBMiywFBVV95cUxN-QUoxWIAxZTV2RzVpR1duSXV6aFA2eWx2LVdGVU5EbUJ4V1F5ck5OYjRvMGk1a3RWSkpMa3V3X090R2R1VUE3Y2IZS1FOOUpsR1o5enc1aIM2U0xQOGJzcDFrU0pDMnc5SEZTMVNtRGFSNmJfNy04cDJYbUQxa3B2T3FNS0VDTzZfMUZDU3hZU3VCeDI-Tem5FdWtGOGNLeFMwRkRPRmxpVWxjWldVRC1EMzhqZmhqVVRqazFgQVg4dFdJeXBXN1FKaFIOUdIB0AFBvV95cUxQ-MU9jVIJvdlpFNkl3Ty1SMUcxMXdsLV8tWmFuVnINUehCODRRaEVWQXBZdC02b1R6ekRiVzV3RjNON-FJ5clFtQ2hKWE1WeEx0NIA2WmxXZVNhTDdMWnh4U00zaGRHNFISNTZUYWtDSkt6MIRoVTZpWktOeTFDTH-pST3lyZVR1T2JkcU9XQnZETGIBTIJHa0NMbWRUSmpZM2IOZTZOVRTdWc1Z1U4SWRWYTZvQ3JXYjI2X1NUVXF2NVF-PR2Q3U2gwU1Q2cExWYmd2?oc=5>

Repurposing Options

• Targeted subgroup usage

Rationale: Current guidelines for pulmonary hypertension provide general authoritative recommendations but no specific detailed mention of sildenafil. A PubMed search from 2020 to 2025 yielded no new publications specifically concerning sildenafil and pulmonary hypertension in this period. Recent news includes several regional analyses and comparison studies involving sildenafil for pulmonary hypertension in India and other populations, indicating ongoing clinical interest and application. The presence of news about regulatory approvals also suggests continued importance of sildenafil formulations.

Evidence: WHO Guidelines, NICE Guidelines

Risks and Gaps

- Limited late-stage clinical evidence
- Geography-specific data gaps for India

References

• guideline: WHO Guidelines

<https://www.who.int/publications/guidelines>

• guideline: NICE Guidelines

<https://www.nice.org.uk/guidance>

• trial: NCT04715113

<https://clinicaltrials.gov/study/NCT04715113>

- trial: NCT03460470

<https://clinicaltrials.gov/study/NCT03460470>

- trial: NCT01616381

<https://clinicaltrials.gov/study/NCT01616381>

- trial: NCT01582438

<https://clinicaltrials.gov/study/NCT01582438>

- trial: NCT03053739

<https://clinicaltrials.gov/study/NCT03053739>

Warnings

- **FTO requested but not executed in MVP**
- **Supply view requested but not executed in MVP**